

STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 204757

TO: Satya Gudibande
Location: Remsen 3a20 / 3c18
Thursday, October 19, 2006
Art Unit: 1654
Phone: 571-272-8146
Serial Number: 09 / 971929

From: Jan Delaval
Location: EIC 1700
Remsen 4a30
Phone: 571-272-2504

jan.delaval@uspto.gov

Search Notes

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: SATYA GUDIBANDE Examiner #: 81066 Date: 10/17/06
Art Unit: 1654 Phone Number: 2-8146 Serial Number: 09/771,929
Location (Bldg/Room#): 3A 20 (Mailbox #): 3C 18 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Process for producing An Amide compound

Inventors (please provide full names): Takano, Naoyuki et al

Earliest Priority Date: 10/1/2000

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search claim 1

and the elected species with reference to claim 1.

Please call me if you have any questions.

Thanks.

Satya

Please forward this request to
Jan Delaval.

STAFF USE ONLY

Searcher: an

Searcher Phone #: 22504

Searcher Location: _____

Date Searcher Picked Up: 10/19/06

Date Completed: 10/19/06

Searcher Prep & Review Time: 20

Online Time: 70

Type of Search

____ NA Sequence (#)

____ AA Sequence (#)

☒ Structure (#)

____ Bibliographic

____ Litigation

____ Fulltext

____ Other

Vendors and cost where applicable

☒ STN _____ Dialog

____ Questel/Orbit _____ Lexis/Nexis

____ Westlaw _____ WWW/Internet

In-house sequence systems

____ Commercial _____ Oligomer _____ Score/Length

____ Interference _____ SPDI _____ Encode/Transl

____ Other (specify)

=> fil reg

FILE 'REGISTRY' ENTERED AT 07:19:08 ON 19 OCT 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 OCT 2006 HIGHEST RN 910777-14-9

DICTIONARY FILE UPDATES: 18 OCT 2006 HIGHEST RN 910777-14-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

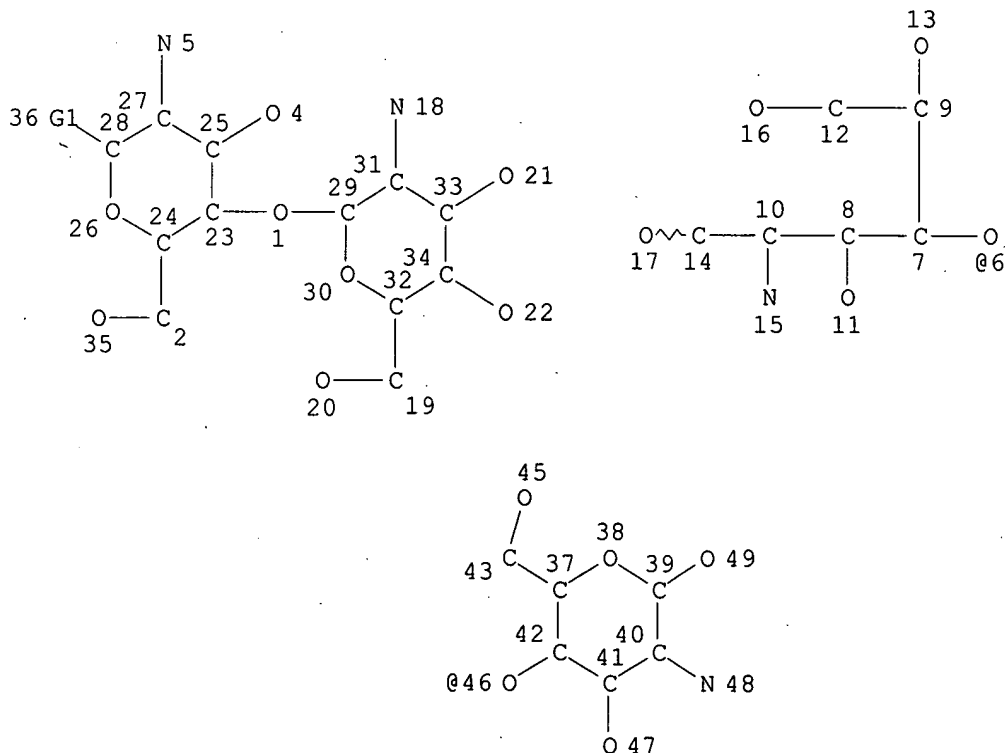
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d sta que 130

L27 STR



VAR G1=46/6

NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 47

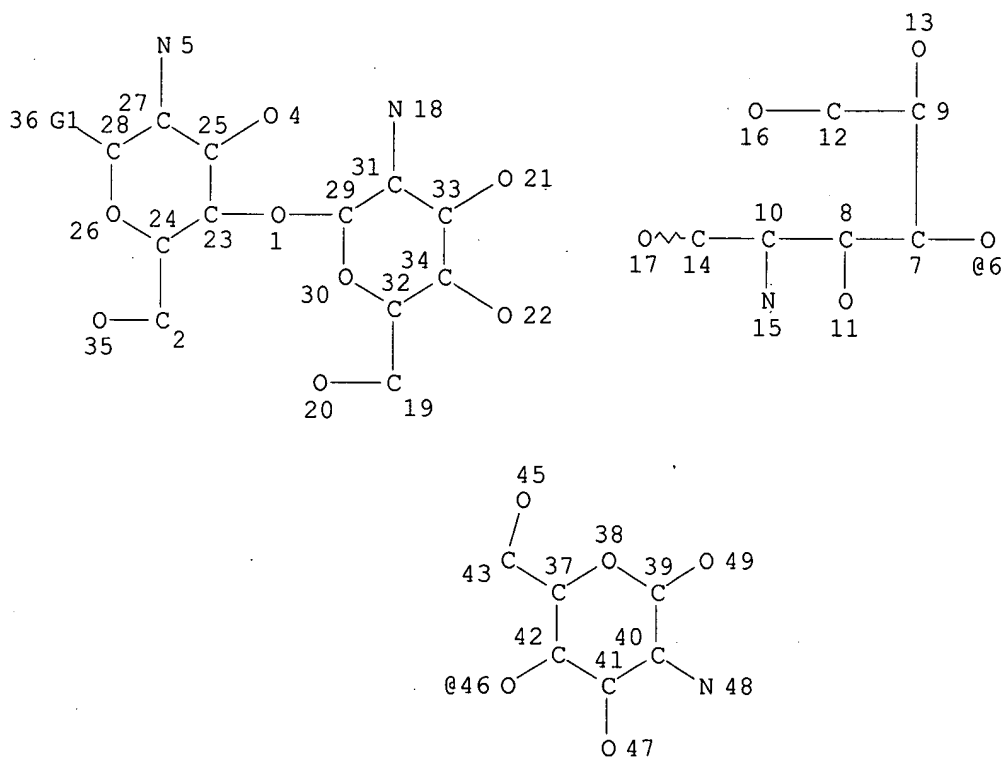
STEREO ATTRIBUTES: NONE

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L30 2 SEA FILE=REGISTRY ABB=ON PLU=ON L29 AND NC2NC2NC2NC2/ES

=> d sta que 138

L27 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

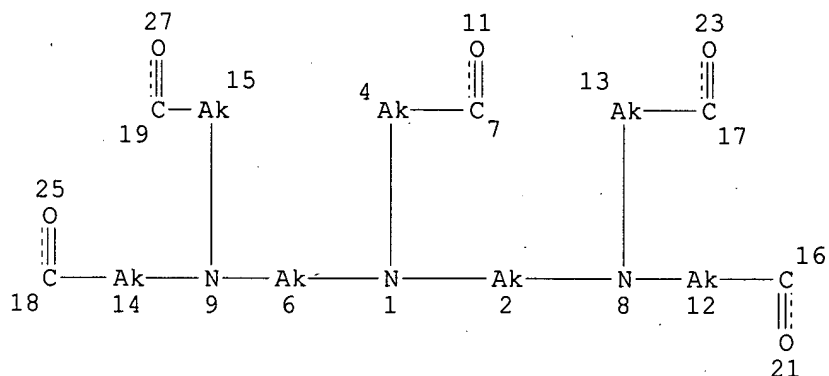
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NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE

L29 1204 SEA FILE=REGISTRY SSS FUL L27

L36 STR



NODE ATTRIBUTES:
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
 L38 20 SEA FILE=REGISTRY SUB=L29 SSS FUL L36

100.0% PROCESSED 1204 ITERATIONS
 SEARCH TIME: 00.00.01

20 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 06:18:59 ON 19 OCT 2006)
 SET COST OFF

FILE 'HCA' ENTERED AT 06:21:20 ON 19 OCT 2006

L1 1 S US20020077456/PN OR (US2001-971929# OR JP2000-310626)/AP,PRN
 E TAKANO/AU
 E TAKANO N/AU
 L2 91 S E3,E18
 E NAOYUKI/AU
 E NAO YUKI/AU
 E NAKAMURA/AU
 L3 4 S E3
 E NAKAMURA D/AU
 L4 48 S E3,E7,E8
 E NAKAMURA NAME/AU
 E DAISAKU/AU
 E NIHON/PA,CS
 E NIHON MED/PA,CS
 L5 108 S E14-E26
 E SUMITO/PA,CS
 L6 93032 S E55,E56 OR SUMITOMO?/PA,CS
 SEL RN L1

FILE 'REGISTRY' ENTERED AT 06:27:55 ON 19 OCT 2006

L7 22 S E1-E22
 L8 6 S L7 AND (C60H100N12O40 OR C48H79N9O34 OR C66H115N15O34)

L9 7 S (C60H100N12O40 OR C48H79N9O34 OR C66H115N15O34) NOT L8
 L10 13 S L8,L9
 L11 1 S 67-43-6
 L12 1 S 60-00-4
 L13 1 S 60239-18-1
 L14 1 S 23911-25-3
 L15 1 S 23911-26-4
 L16 2 S L7 AND NC2OC2/ES NOT L14,L15
 L17 2 S 148690-82-8 OR 411229-70-4
 L18 5 S 115724-92-0 OR 411229-75-9 OR 151677-09-7 OR 138885-99-1 OR 1
 L19 3 S L7 NOT L8-L18
 L20 1 S 84354-98-3
 L21 1 S 84354-98-3/CRN
 L22 2 S L20,L21
 L23 2 S C18H37N3O13/MF
 L24 1 S L23 NOT L22
 L25 0 S 835626-40-9/CRN
 L26 3 S L22,L23,L24
 L27 STR
 L28 50 S L27
 L29 1204 S L27 FUL
 SAV L29 SATYA971/A
 L30 2 S L29 AND NC2NC2NC2NC2/ES
 L31 1 S L29 AND NC2OC2/ES
 L32 STR
 L33 0 S L32 SAM SUB=L29
 L34 STR L32
 L35 1 S L34 SAM SUB=L29
 L36 STR L34
 L37 1 S L36 SAM SUB=L29
 L38 20 S L36 FUL SUB=L29
 SAV L38 SATYA971A/A
 L39 11 S L38 NOT L10
 L40 0 S L39 NOT (C6/ES OR P/ELS)
 L41 2 S L10 NOT L30,L38
 L42 9 S L10 AND L38
 L43 0 S L29 AND (63215 OR 55514)/RID
 L44 2 S L27 CSS SAM SUB=L29
 L45 27 S L27 CSS FUL SUB=L29
 SAV L45 SATYA971B/A
 L46 9 S L45 AND 1/NC
 L47 17 S L45 NOT L26,L46
 SEL RN 7 16 17
 L48 3 S E23-E25
 L49 13 S L26,L46,L48

FILE 'HCAPLUS' ENTERED AT 07:17:06 ON 19 OCT 2006

L50 2 S L30 OR L42
 L51 3 S L49 AND L11-L13
 L52 1 S L49 AND L14-L17
 L53 4 S L50,L51,L52
 L54 3 S L53 AND L1-L6
 L55 4 S L53,L54

FILE 'USPATFULL' ENTERED AT 07:18:27 ON 19 OCT 2006

L56 1 S L30 OR L42
 L57 4 S L49 AND L11-L13
 L58 1 S L49 AND L14-L17
 L59 4 S L56-L58

FILE 'REGISTRY' ENTERED AT 07:19:08 ON 19 OCT 2006

=> s 130 or 142

L60 11 L30 OR L42

=> d ide can tot

L60 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN

RN 868055-15-6 REGISTRY

ED Entered STN: 15 Nov 2005

CN D-Mannitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

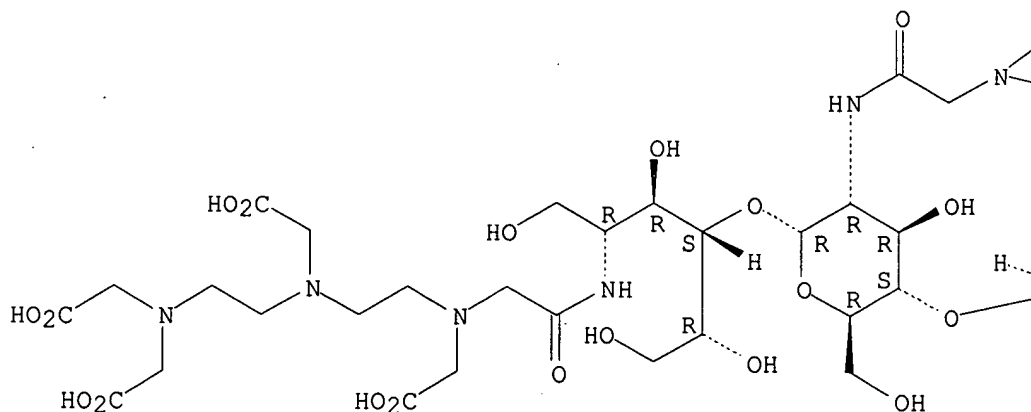
MF C60 H100 N12 O40

SR CA

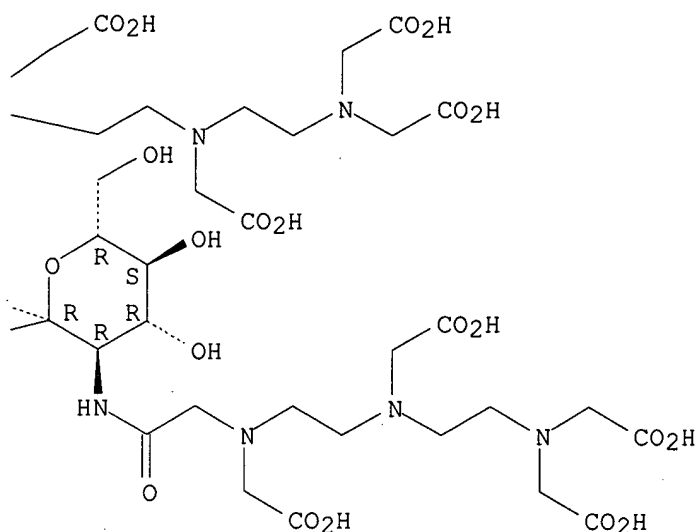
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

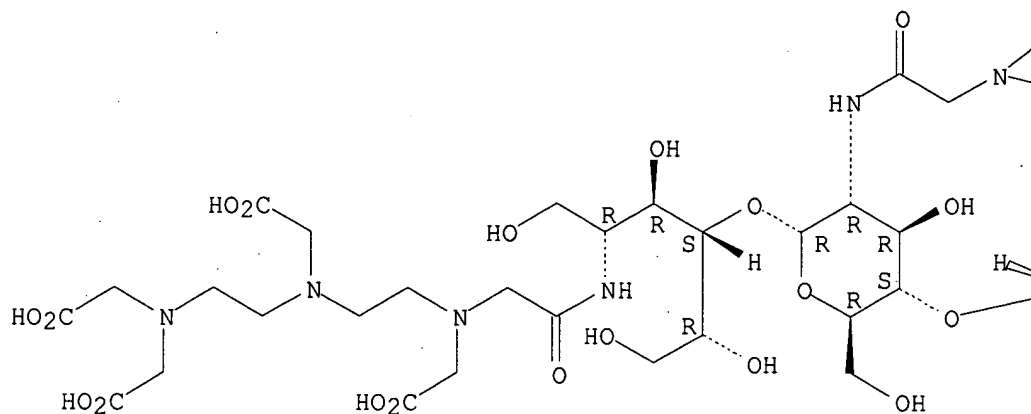
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REFERENCE 1: 143:422550

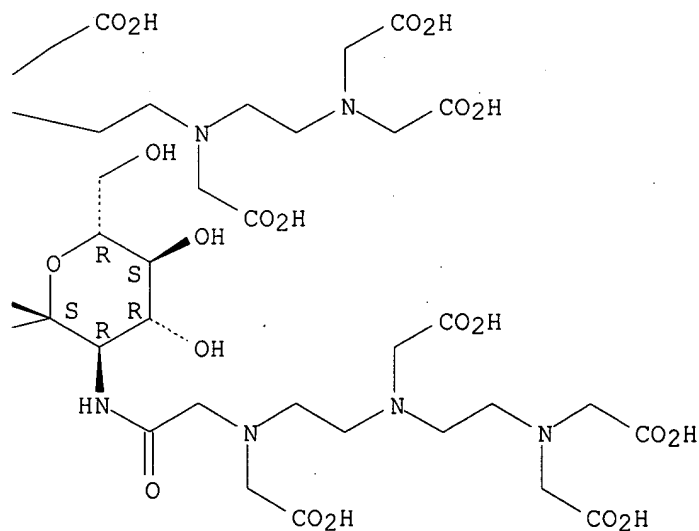
L60 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN
RN 868055-14-5 REGISTRY
ED Entered STN: 15 Nov 2005
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FS STEREOSEARCH
MF C60 H100 N12 O40
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:422550

L60 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN
RN 868055-13-4 REGISTRY
ED Entered STN: 15 Nov 2005
CN D-Mannitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy-

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β -D-glucopyranosyl-(1 \rightarrow 4)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

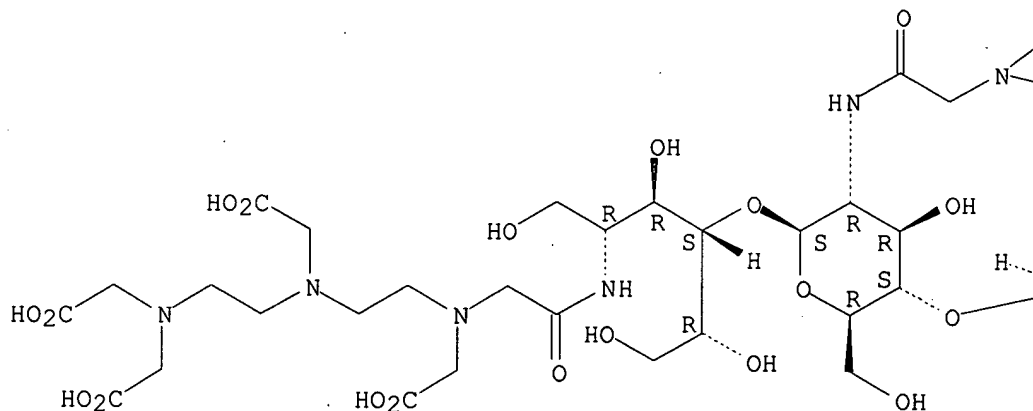
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SR CA

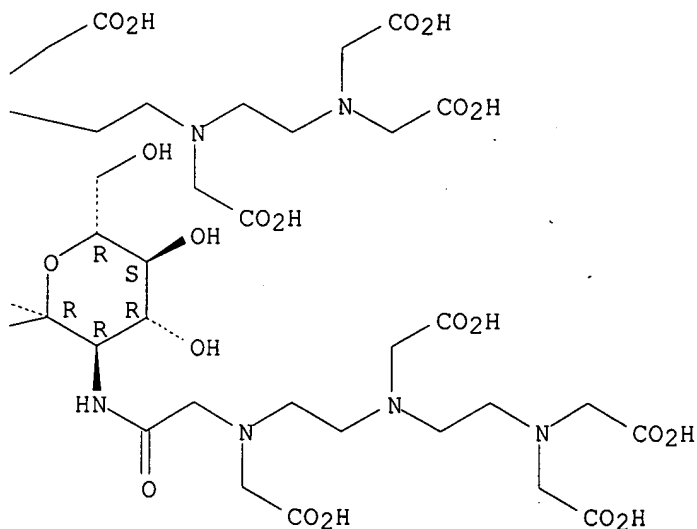
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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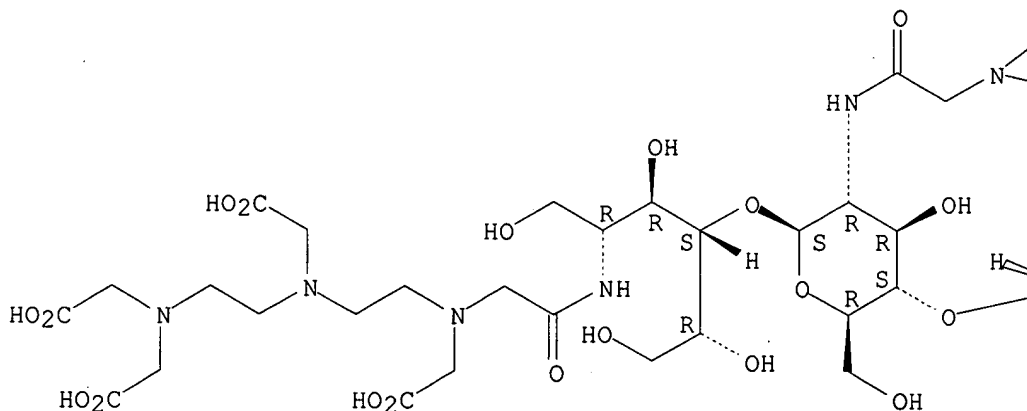
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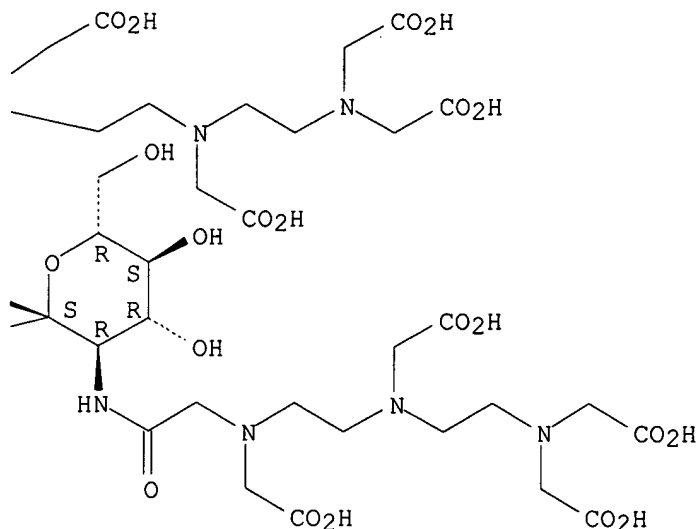
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 RN 868055-12-3 REGISTRY
 ED Entered STN: 15 Nov 2005
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 FS STEREOSEARCH
 MF C60 H100 N12 O40
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

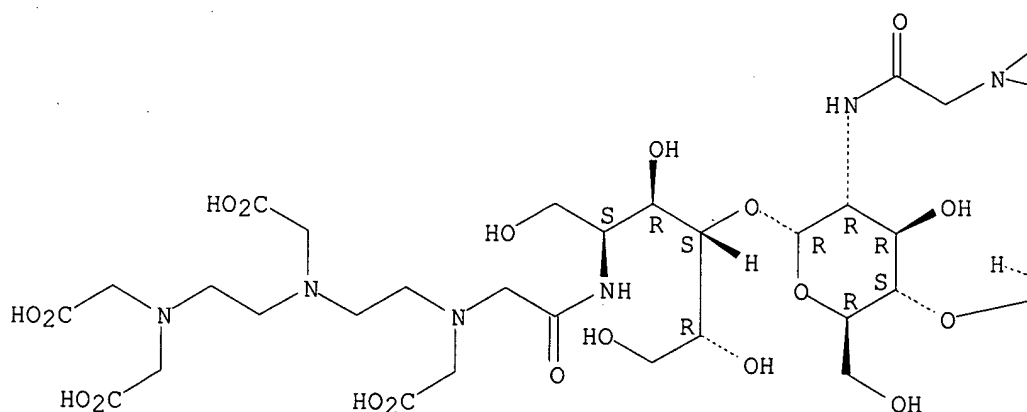
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REFERENCE 1: 143:422550

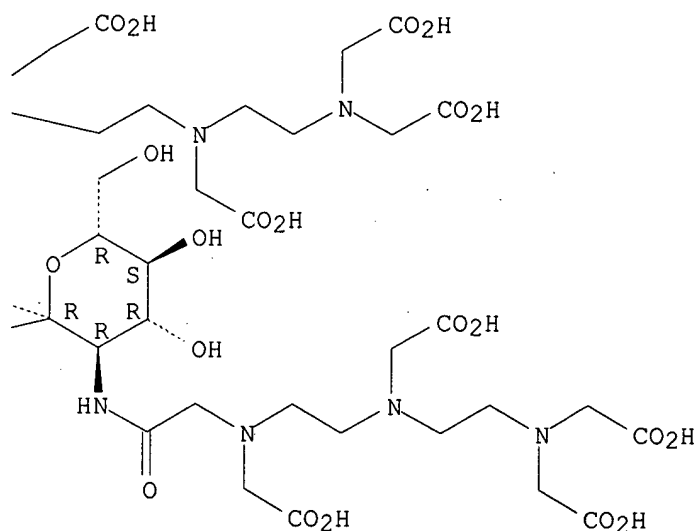
L60 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN
RN 868055-11-2 REGISTRY
ED Entered STN: 15 Nov 2005
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FS STEREOSEARCH
MF C60 H100 N12 O40
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:422550

L60 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN

RN 868055-10-1 REGISTRY

ED Entered STN: 15 Nov 2005

CN D-Glucitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy-β-D-glucopyranosyl-(1→4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy-

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α -D-glucopyranosyl-(1 \rightarrow 4)-2-[[[[2-[[2-
[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl]a
mino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

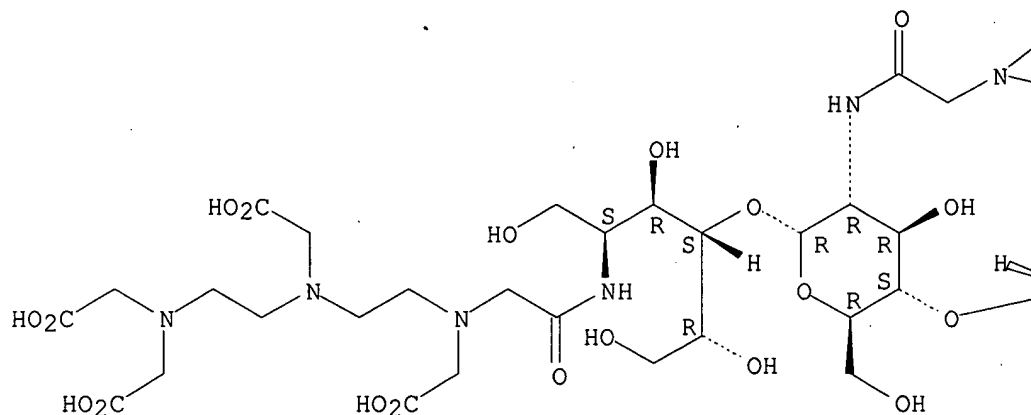
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SR CA

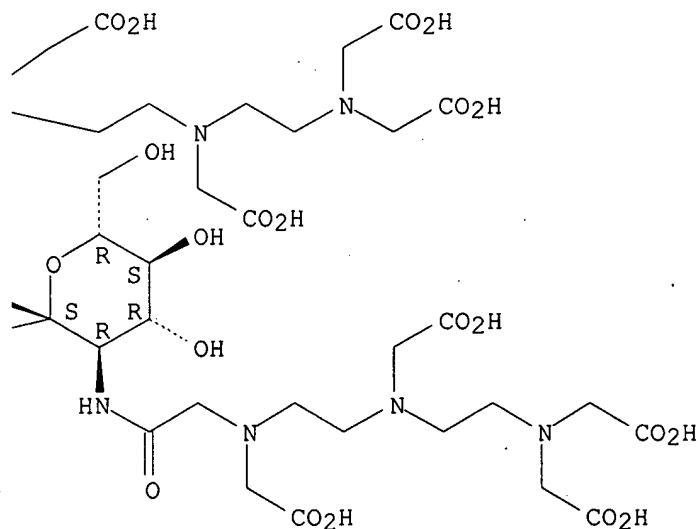
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



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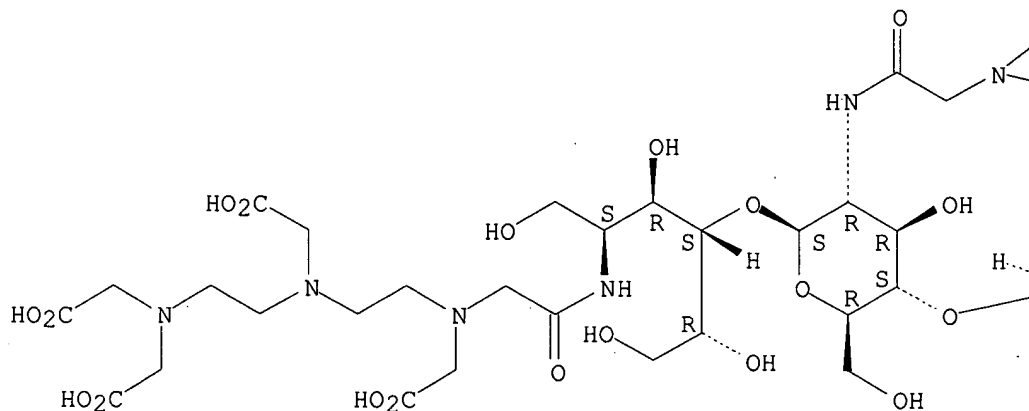
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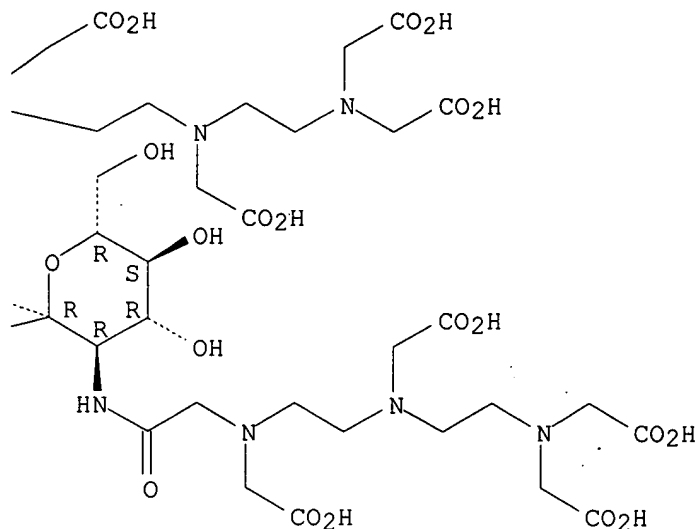
L60 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN
RN 868055-09-8 REGISTRY
ED Entered STN: 15 Nov 2005
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FS STEREOSEARCH
MF C60 H100 N12 O40
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

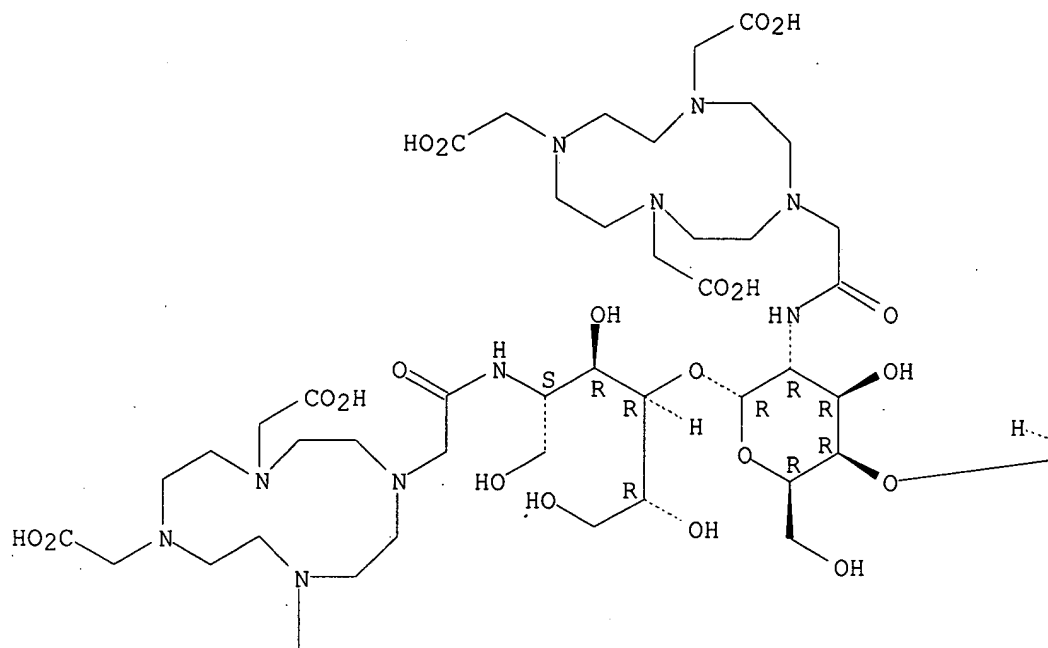
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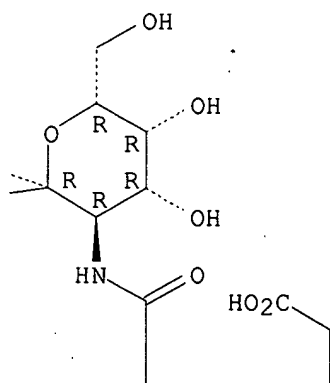
L60 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN
RN 411229-74-8 REGISTRY
ED Entered STN: 06 May 2002
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LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

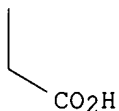
PAGE 1-A



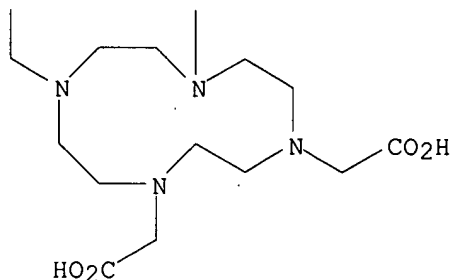
PAGE 1-B



PAGE 2-A



PAGE 2-B



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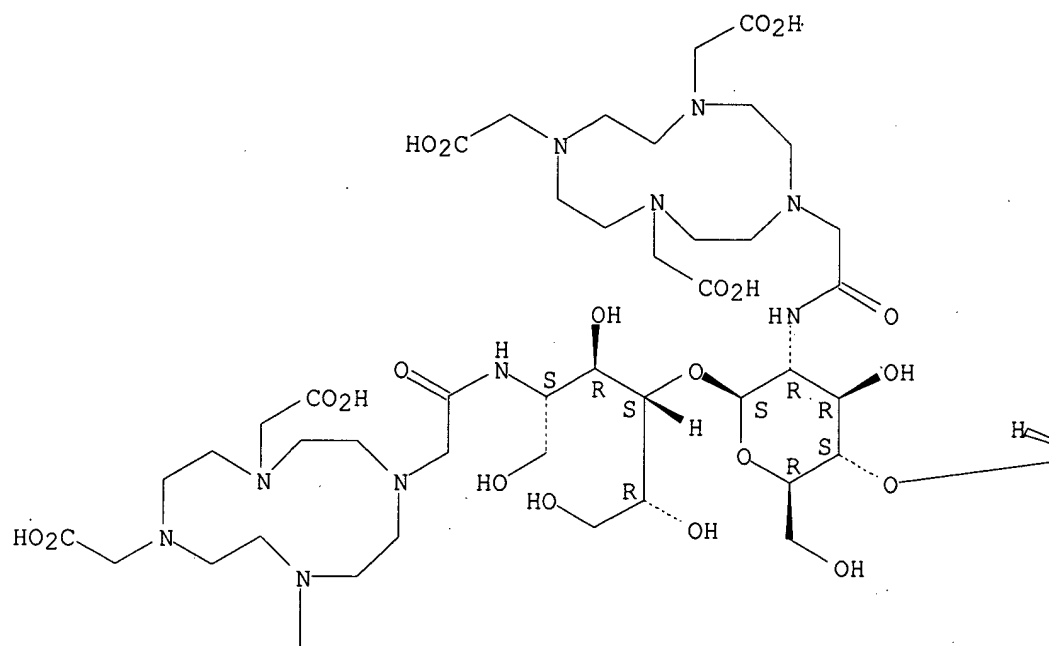
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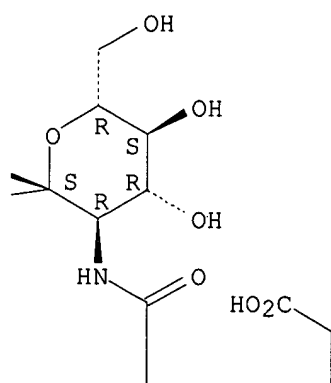
L60 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN
RN 411229-73-7 REGISTRY
ED Entered STN: 06 May 2002
CN D-Glucitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- β -D-glucopyranosyl-(1 \rightarrow 3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C66 H115 N15 O34
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

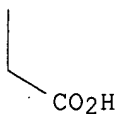
PAGE 1-A



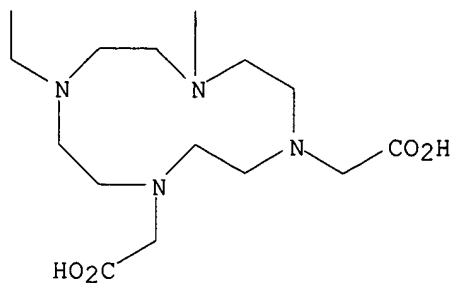
PAGE 1-B



PAGE 2-A



PAGE 2-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

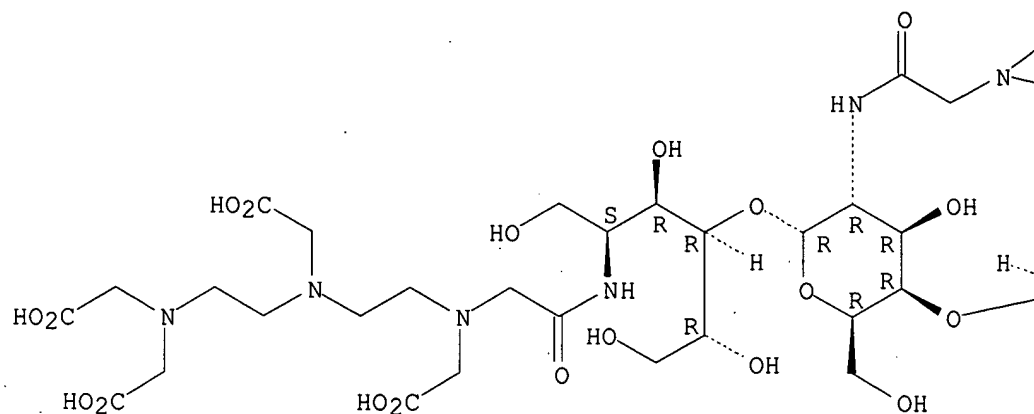
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:325778

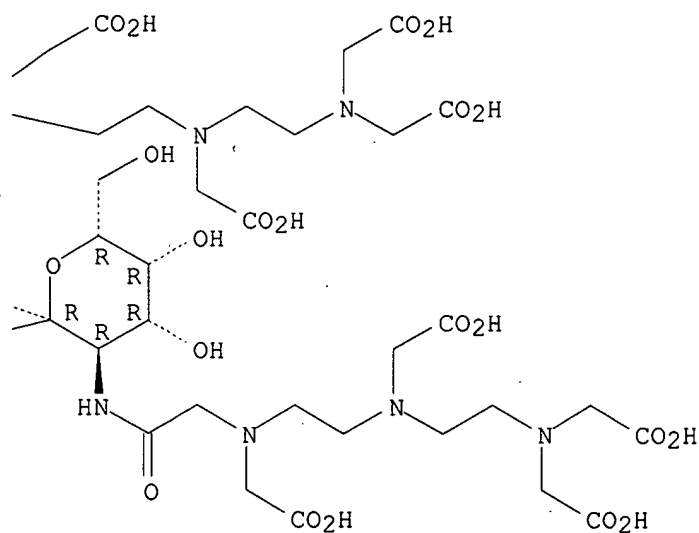
L60 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **411229-71-5** REGISTRY
 ED Entered STN: 06 May 2002
 CN D-Galactitol, 0-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-0-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF **C60 H100 N12 O40**
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:325778

L60 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN

RN 411229-68-0 REGISTRY

ED Entered STN: 06 May 2002

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jan delaval - 19 october 2006

β -D-glucopyranosyl-(1 \rightarrow 3)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

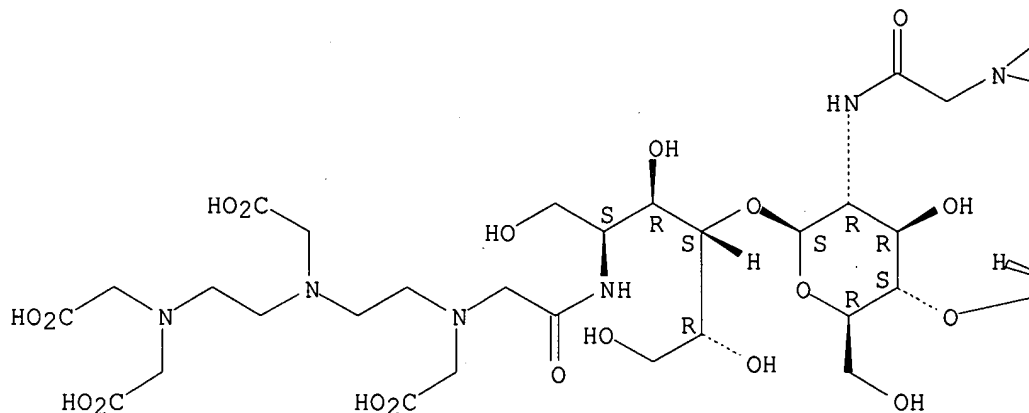
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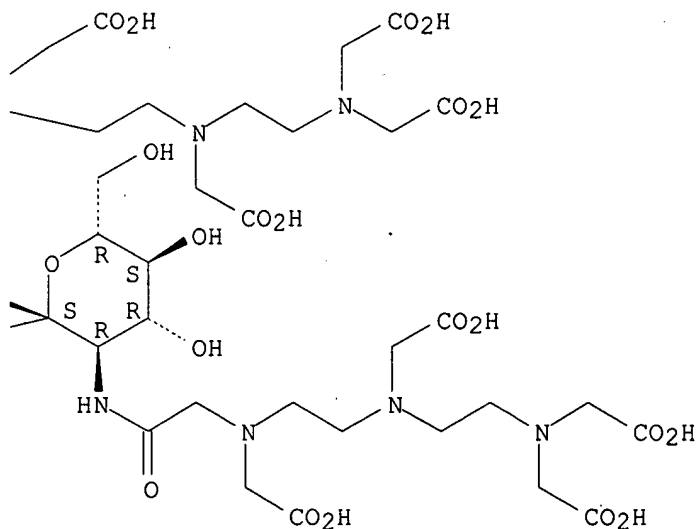
LC STN Files: CA, CAPLUS, CASREACT, PROUSDDR, SYNTHLINE, USPATFULL

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:422550

REFERENCE 2: 136:325778

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 07:20:10 ON 19 OCT 2006

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FILE COVERS 1907 - 19 Oct 2006 VOL 145 ISS 17

FILE LAST UPDATED: 17 Oct 2006 (20061017/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L55 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:951424 HCAPLUS

DN 143:422550

TI Synthesis of DTPA-conjugated (1,4)-linked 2-amino-glycosides varying in the anomeric configuration and their MRI contrast effect

AU Tanaka, Hiroshi; Ando, Yoshio; Wada, Masatoshi; Takahashi, Takashi

CS Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo, Meguro, 152-8552, Japan

SO Organic & Biomolecular Chemistry (2005), 3(18), 3311-3328

CODEN: OBCRAK; ISSN: 1477-0520

PB Royal Society of Chemistry

DT Journal

LA English

AB The efficient synthesis of diethylenetriamine-N,N,N',N'',N'''-penta-acetic acid (DTPA)-conjugated oligosaccharides composed of α - and/or β -linked tri to mono-glucosamines is described. Gd(III) complex with DTPA-conjugated chitotriitol has been reported to be an effective MRI contrast agent. In order to elucidate the structure-property relationships, we planned to synthesize the DTPA-conjugated 2-amino-tri-, di-, and monosaccharides varying in configuration at the anomeric positions and the C2 position on the reducing end. Our strategy for the synthesis of the DTPA-conjugated oligosaccharides involves O-per-benzyl protected 2-amino-tri-, di-, and monosaccharides as key intermediates. The 2-amino-glycosides were prepared by non-selective glycosidation of 2-azido-2-deoxy-glycosyl donors, followed by separation of two anomeric isomers. Although the synthesis involves separation of the stereoisomers, it circumvents not only the careful tuning of reaction conditions, but also the time-consuming preparation of glycosyl donors attached to different

protecting groups. The protected 2-amino-glycosides were converted to the fully deprotected DTPA-conjugated tri- to monosaccharides by the same operation. MRI phantom study using the Gd(III) complexes of DTPA-conjugated oligosaccharides indicates that the number of the monosaccharide units was critical for enhancing the relative signal intensity of water protons per Gd, and various stereoisomers would be candidate scaffolds for MRI contrast agents.

IT 411229-68-0P 868055-09-8P 868055-10-1P
868055-11-2P 868055-12-3P 868055-13-4P
868055-14-5P 868055-15-6P

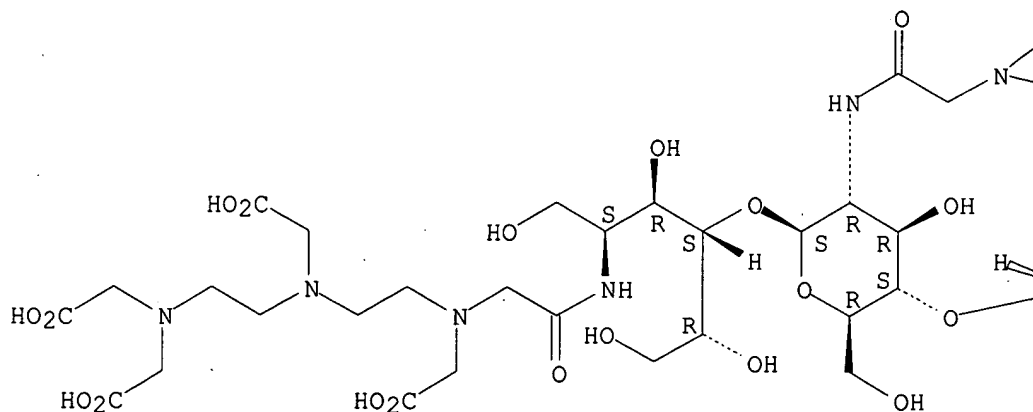
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis of DTPA-conjugated (1,4)-linked 2-amino-glycosides varying in the anomeric configuration and their MRI contrast effect)

RN 411229-68-0 HCAPLUS

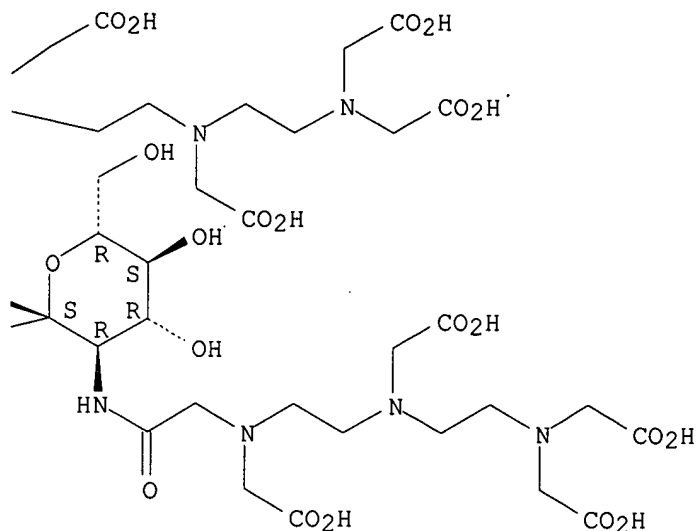
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Absolute stereochemistry. Rotation (-).

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PAGE 1-B

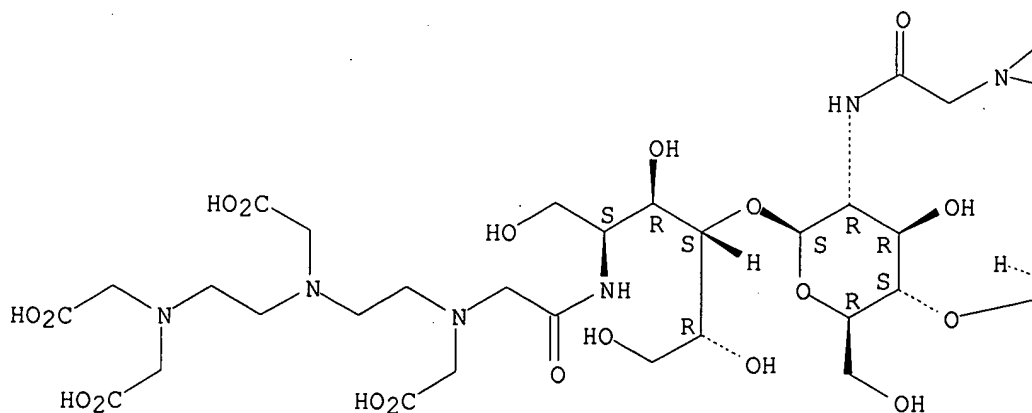


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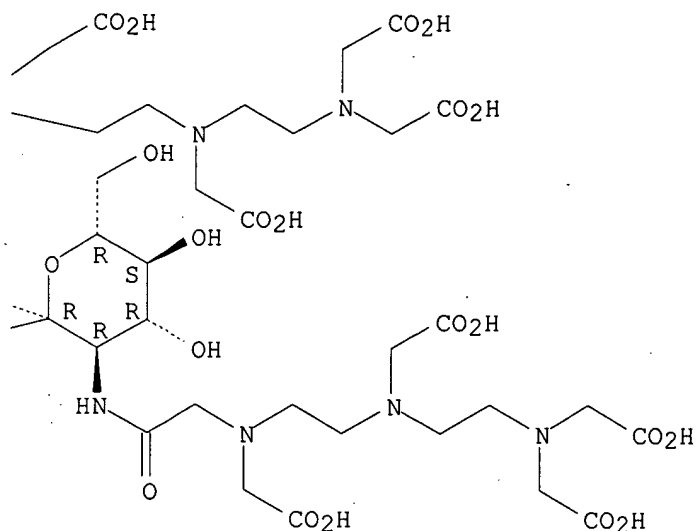
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Absolute stereochemistry. Rotation (+).

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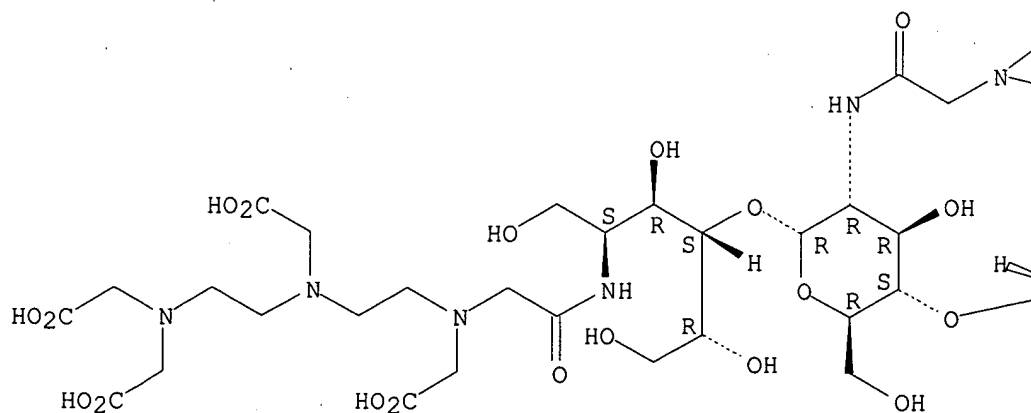
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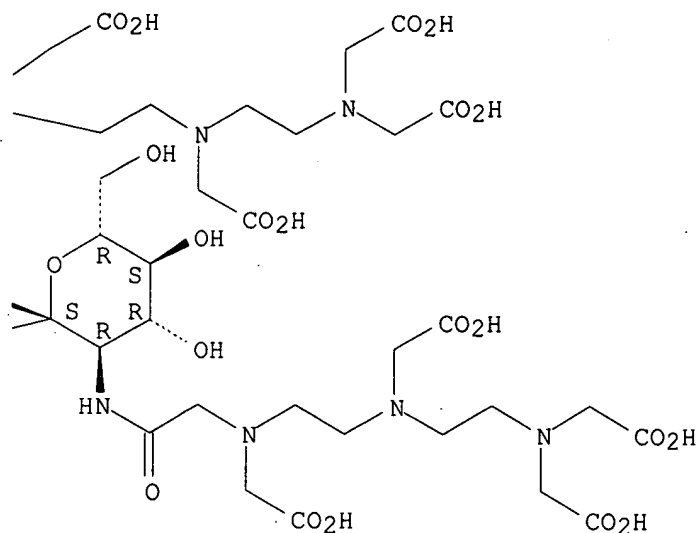
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Absolute stereochemistry. Rotation (+).

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PAGE 1-B

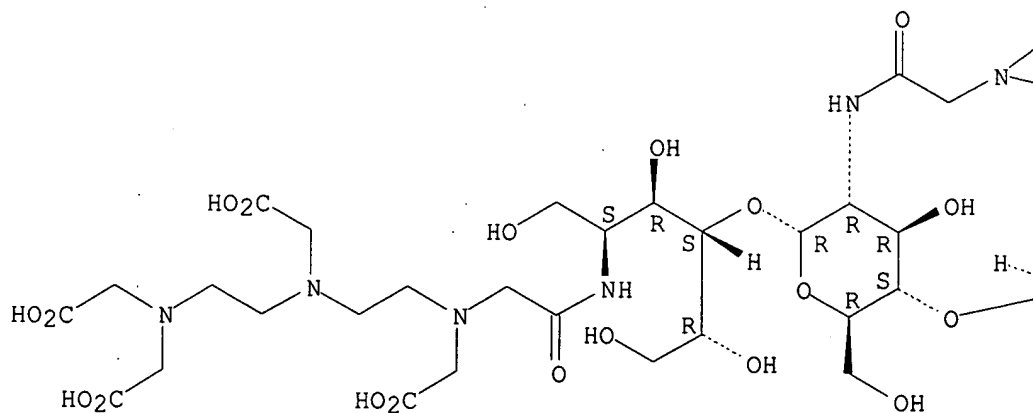


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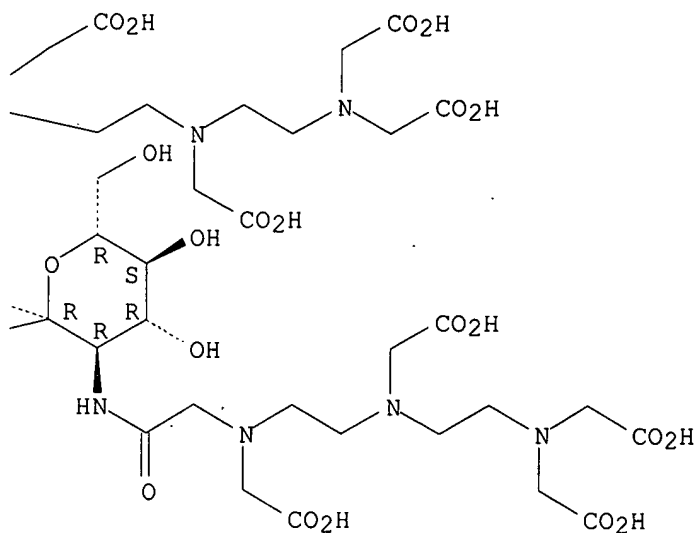
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

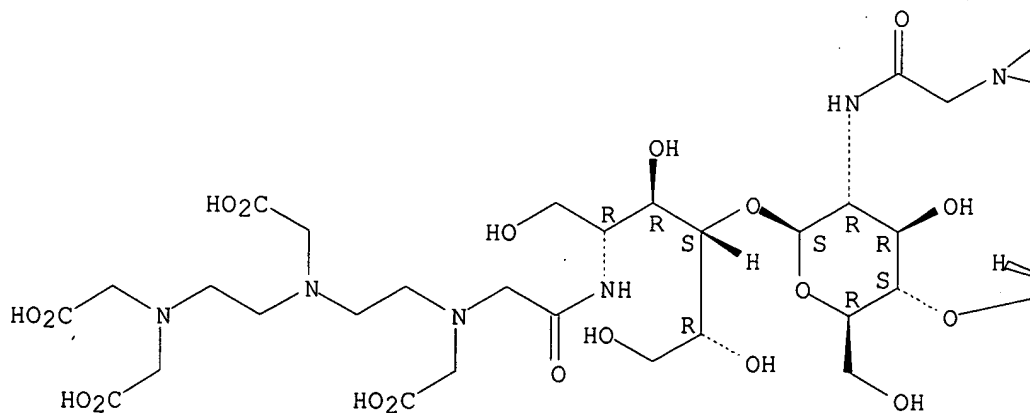


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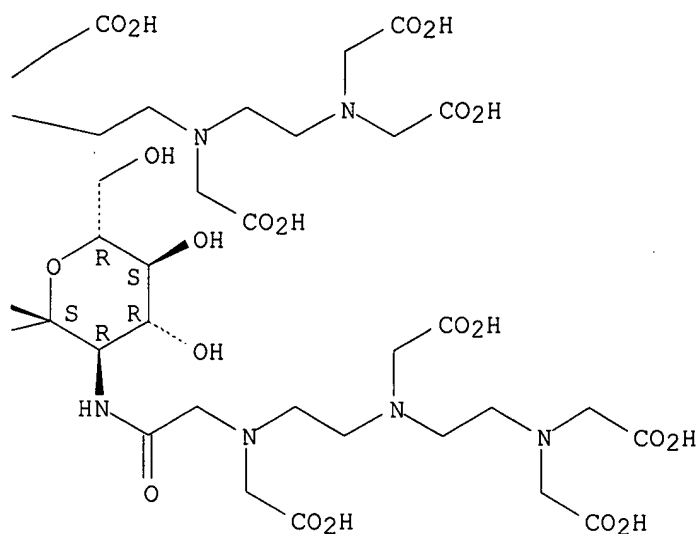
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Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B

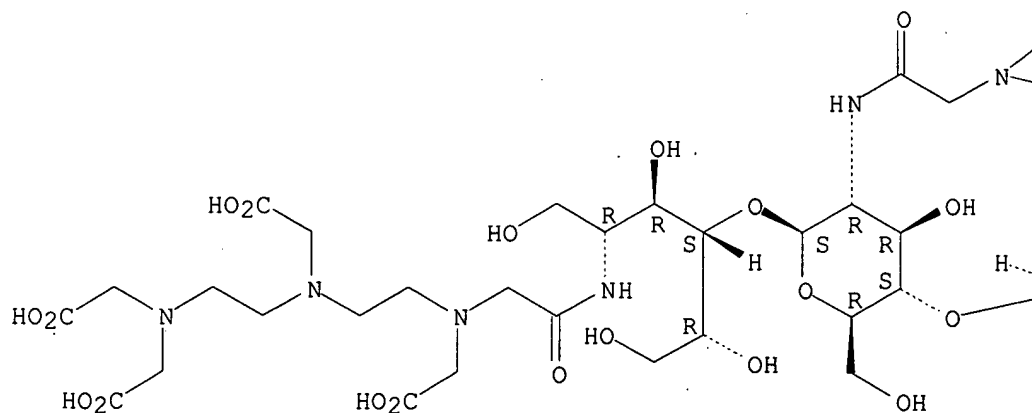


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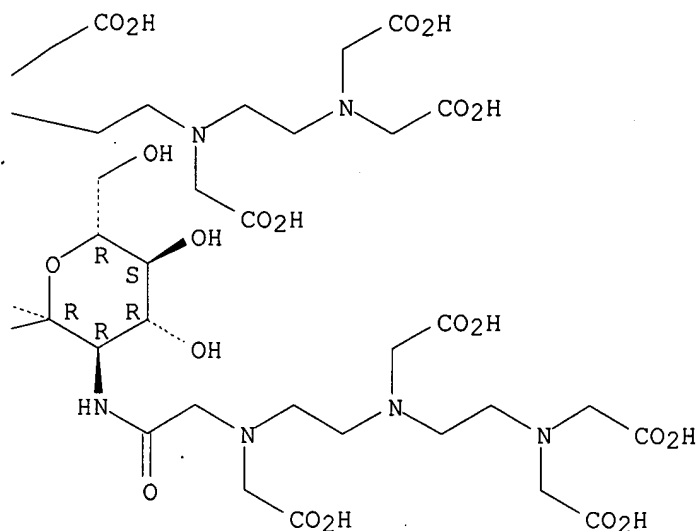
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B.

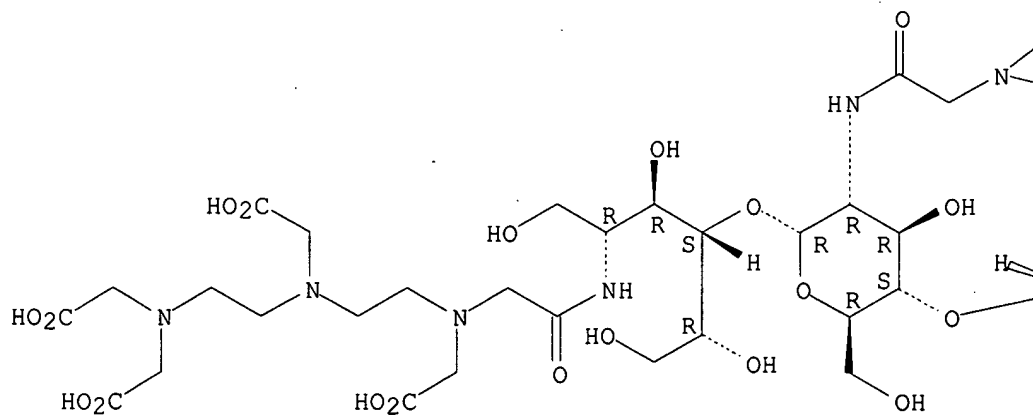


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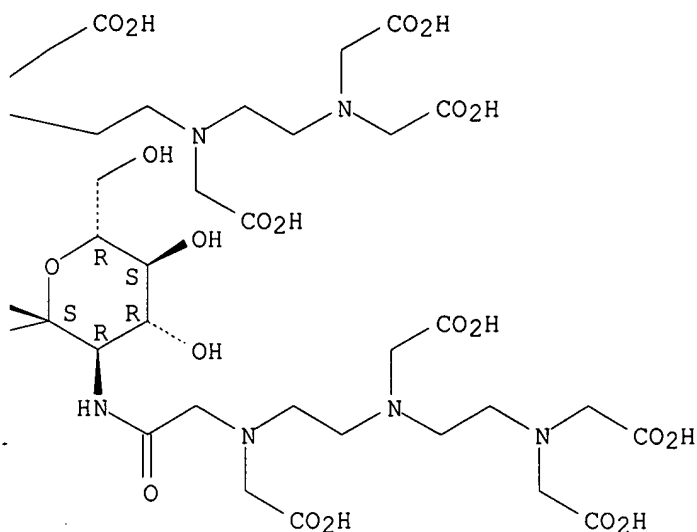
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

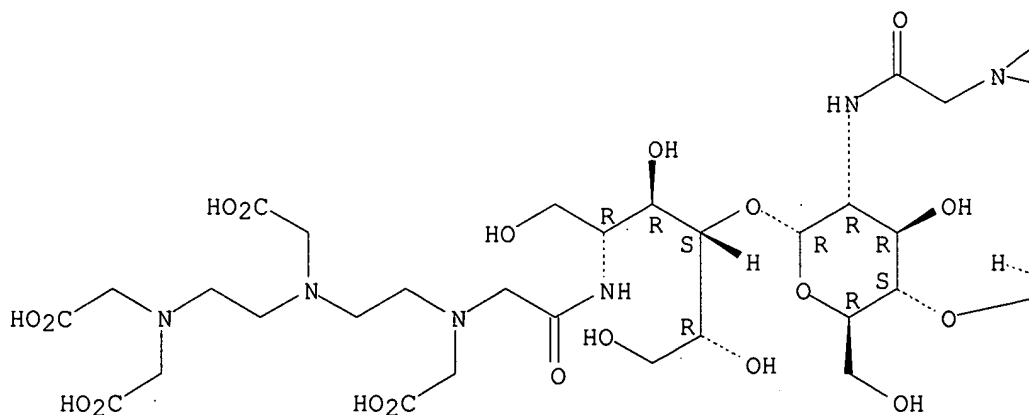


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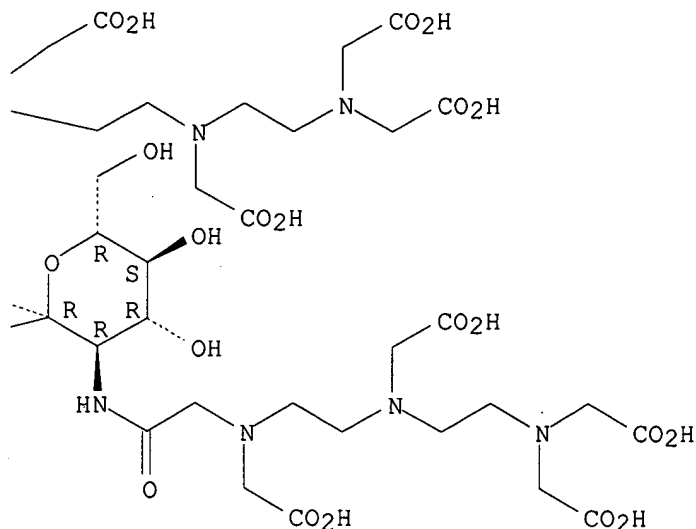
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



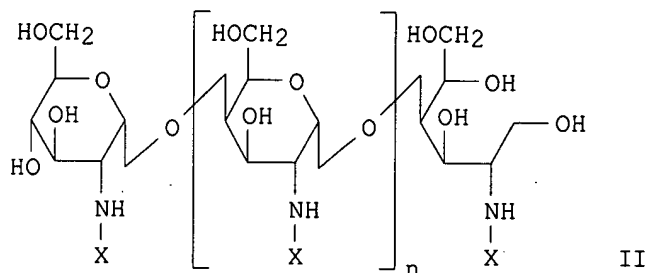
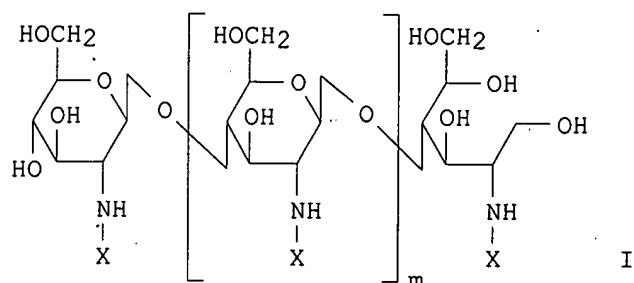
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Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
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Andre, J	2004	10	5804	Chem Eur J	HCAPLUS
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Thanou, M	2001	50	S91	Adv Drug Delivery Re	HCAPLUS
Vasella, A	1991	74	2073	Helv Chim Acta	HCAPLUS
Wang, Y	2003	24	1047	Biomaterials	HCAPLUS

L55 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:504798 HCAPLUS
 DN 137:87494
 TI Process for producing and purifying metal complex of aminooligosaccharide derivative
 IN Hashiguchi, Yuji; Suzuki, Keisuke; Wada, Masatoshi
 PA **Nihon Medi-Physics Co., Ltd., Japan**
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

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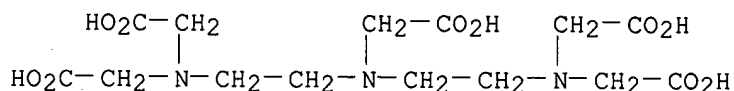


- AB Disclosed is a process for producing a highly purified metal complex of an aminooligosaccharide derivative (I, II; m, n = 1-8; X = a bifunctional ligand) by effectively removing impurities, byproducts, excess eluates, etc. generated in the step of synthesizing the amino oligosaccharide derivative and the step of forming the metal complex thereof. The process comprises subjecting a crude liquid reaction mixture containing an aminooligosaccharide derivative to the step of complexing with metal ions and to a purification step, wherein the purification step comprises at least one stage by the solvent extraction method, anion-exchange method, filter membrane separation method, electrodialysis, or adsorption method. Thus, a crude amidation product (CH3-DTPA) of reduced chitotrisaccharide and diethylenetriaminepentaacetic acid (DTPA) (.apprx.60 g) (50 mL) was adjusted pH 4 by 12 N HCl, slowly treated dropwise with 100 MeOH over .apprx.15 min with stirring, stirred at 30-35° for 15 min, and left to stand for 30 min for the phase separation. The unreacted DTPA mainly migrated to the upper clear layer and to the bottom oil layer migrated mostly reduced chitotrisaccharide and low mol. and polymeric byproducts to recover 93.8% CH3-DTPA and remove 46.8% DTPA. The oil layer was purified by HPLC on a column of Poros 50 HQ (Applied Systems Inc., 30 mm diameter + 250 mm length) using a Shimazu LC-8A apparatus and eluting out low mol. compds. CH3-DTPA, and polymers with aqueous NaCl at 100, 250, and 500 mmol/L, resp., to give an aqueous solution of CH3-DTPA (0.06%, 96.0% purity) which was desalted by a reverse osmosis module (diameter 4 in.) using a polyamide membrane to recover 98% CH3-DTPA with 99% desalting ratio. To the desalted solution was added dropwise an aqueous solution of GdCl₃, stirred at pH 5-7 to give an aqueous solution of CH3-DTPA-Gd complex which (640 mL, 3.2 g, 0.16 g/resin) was passed through a column of IRA67 (Cl form). The column was washed with deionized water 1,000 mL and sequentially eluted with aqueous NaCl at 10, 30, and 50 mmol/L to give CH3-DTPA-Gd complex (≥97% purity and .apprx.85% recovery).
- IT 67-43-6DP, Diethylenetriaminepentaacetic acid, reaction product with chitotrisaccharide 84354-98-3DP, reaction product with diethylenetriaminepentaacetic acid
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(process for producing metal complex of amino oligosaccharide derivative and purification by solvent extraction, ion-exchange chromatog., reverse osmosis, electrodialysis, or adsorption method.)

RN 67-43-6 HCAPLUS

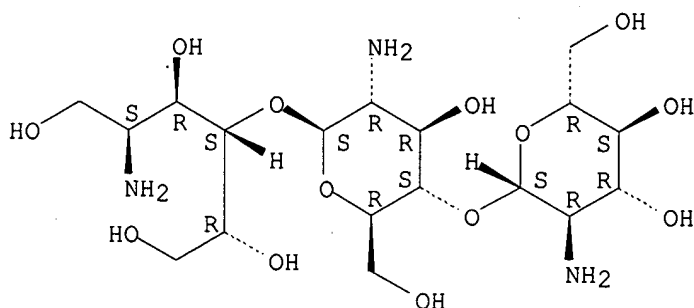
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 84354-98-3 HCAPLUS

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(CA INDEX NAME)

Absolute stereochemistry.



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
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Nihon Medi-Physics Co L	1996			US 5863518 A	HCAPLUS
Nihon Medi-Physics Co L	1996			EP 707857 A1	HCAPLUS

L55 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:314437 HCAPLUS

DN 136:325778

TI Process for producing an amide oligosaccharides which can be used as a diagnostic imaging agents

IN Takano, Naoyuki; Nakamura, Daisaku

PA Sumitomo Chemical Company, Limited, Japan; Nihon Medi-Physics Co., Ltd.

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

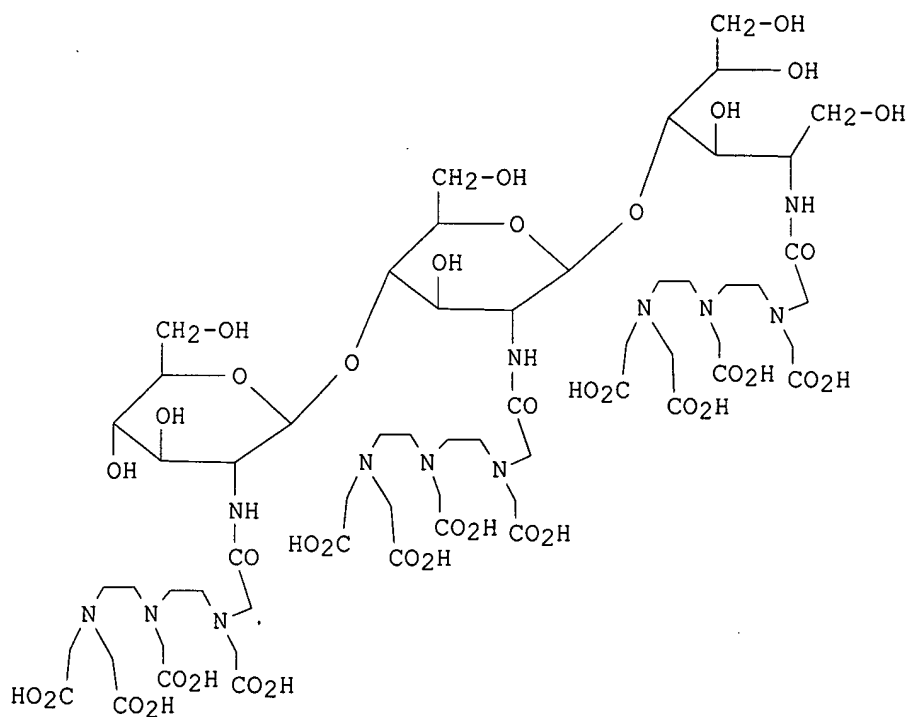
LA English

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GI				



AB There is disclosed a process for producing an amide compound, which process is characterized in that a compound having an amino group is reacted with a polyaminopolycarboxylic acid anhydride in the presence of the polyaminopolycarboxylic acid. The present invention relates to a process for producing an amide compound having a polyaminopolycarboxylic acid group, which amide compound is a useful intermediate for pharmaceuticals, agricultural chems., and the like. For example, amide oligosaccharide I was prepared and can be used as a diagnostic imaging agent by allowing the polyaminopolycarboxylic acid group to make a complex with a radioactive or paramagnetic metallic element.

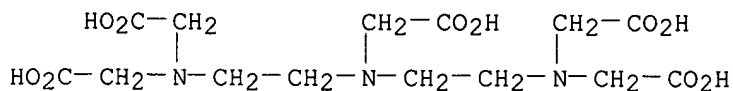
IT **67-43-6DP**, Diethylenetriaminepentaacetic acid, human serum albumin conjugate **411229-68-0P 411229-71-5P 411229-73-7P 411229-74-8P**

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for producing an amide oligosaccharides which can be used as a diagnostic imaging agents)

RN 67-43-6 HCAPLUS

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

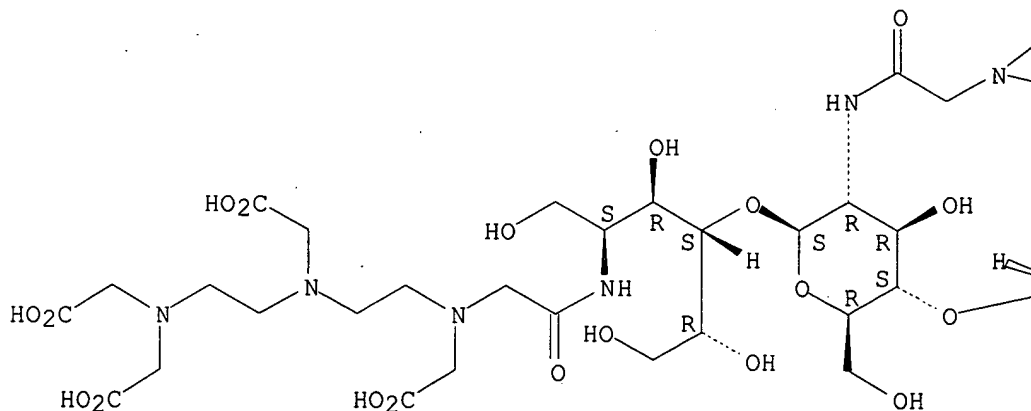


RN 411229-68-0 HCAPLUS

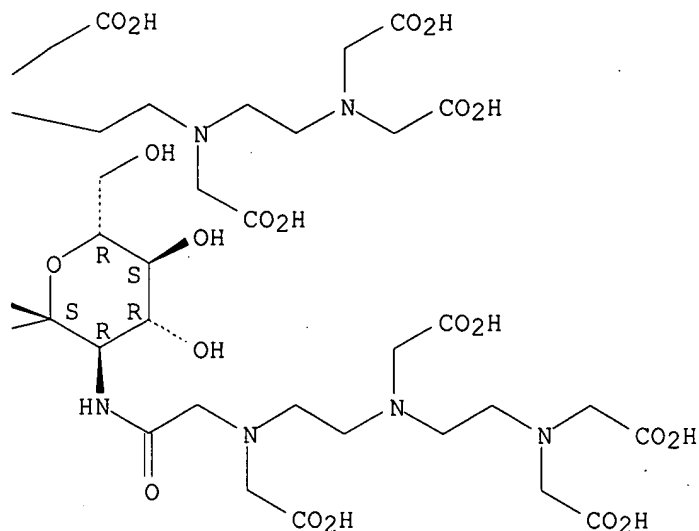
CN D-Glucitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy-β-D-glucopyranosyl-(1→4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy-β-D-glucopyranosyl-(1→3)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B

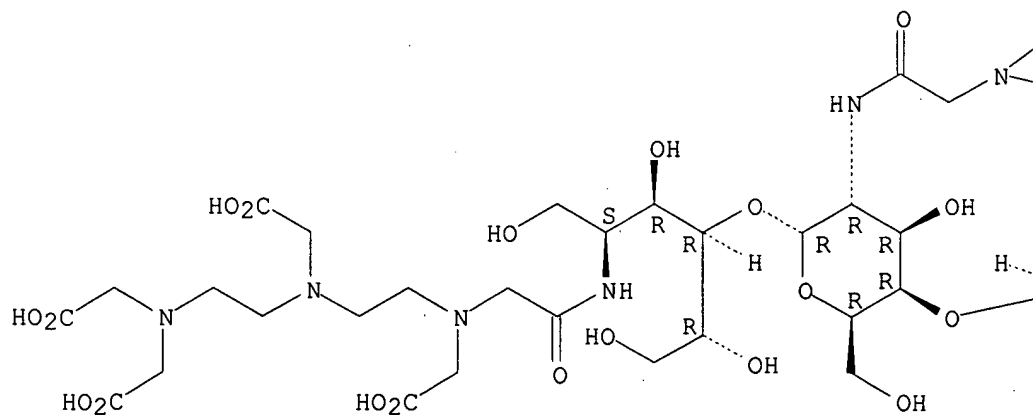


RN 411229-71-5 HCAPLUS

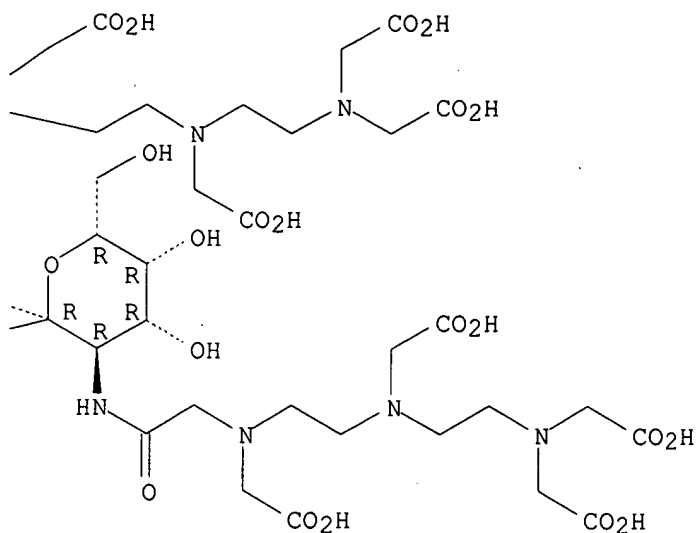
CN D-Galactitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

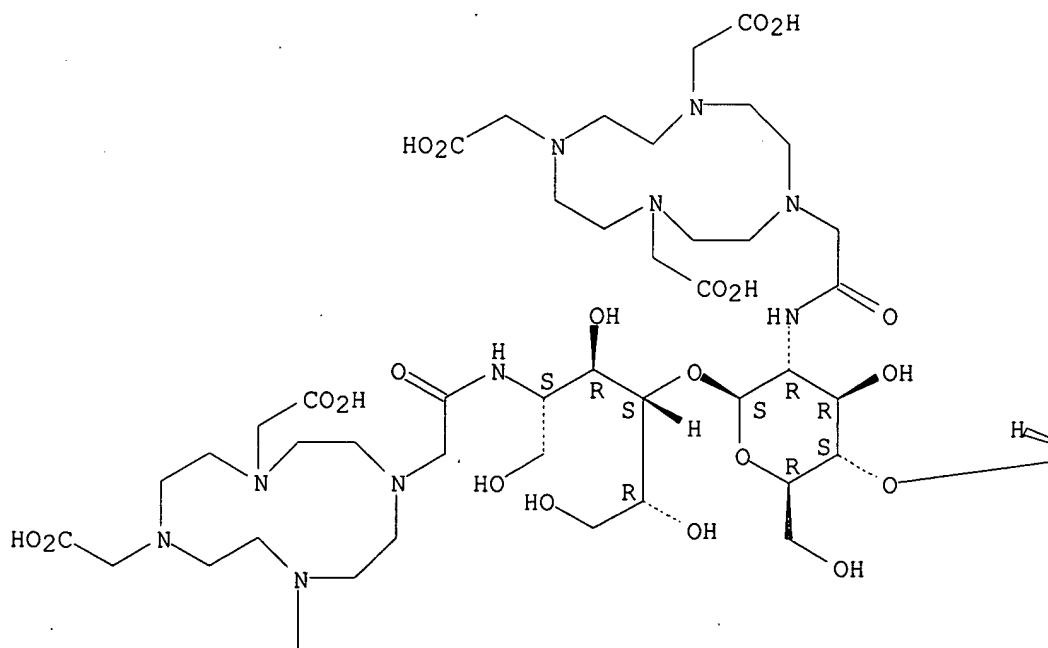


RN 411229-73-7 HCAPLUS

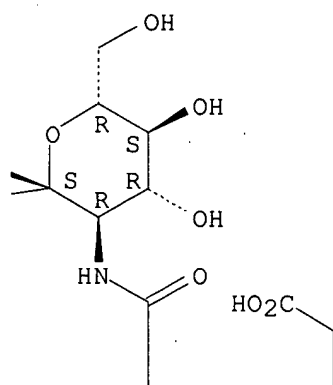
CN D-Glucitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]-β-D-glucopyranosyl-(1→4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]-β-D-glucopyranosyl-(1→3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

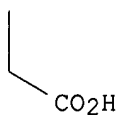
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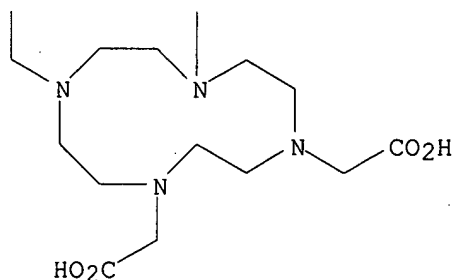
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PAGE 2-A



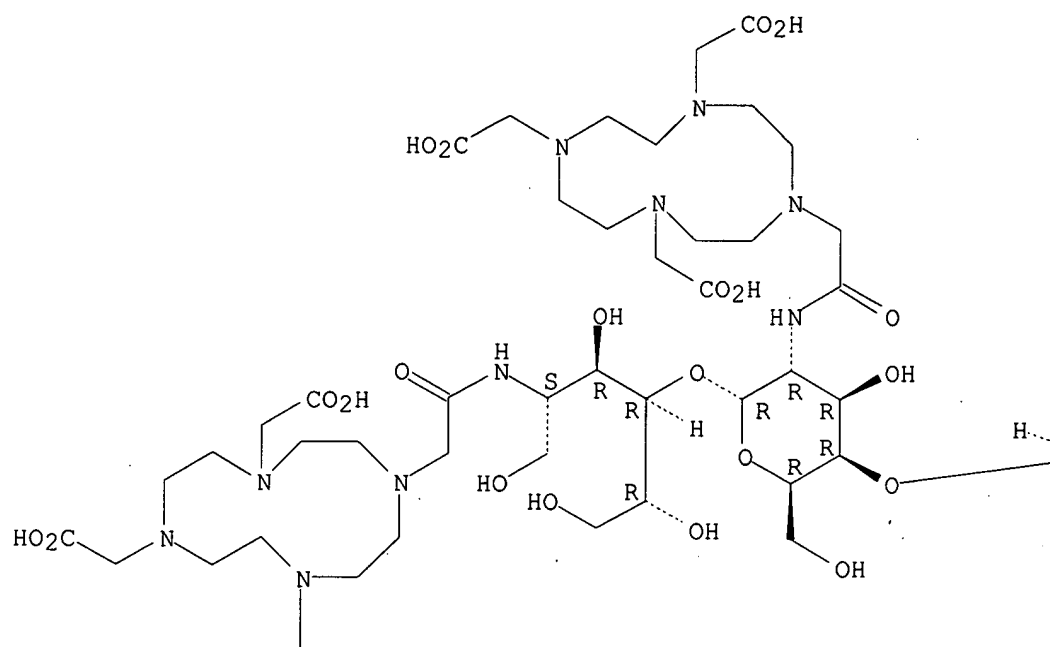
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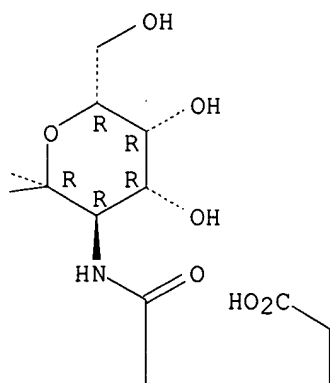
RN 411229-74-8 HCAPLUS
 CN D-Galactitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]-α-D-galactopyranosyl-(1→4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]-α-D-galactopyranosyl-(1→3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

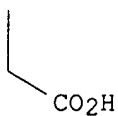
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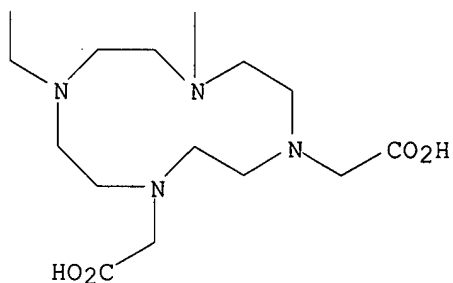
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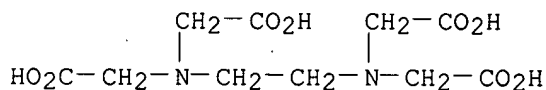
PAGE 2-A



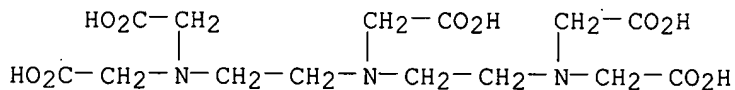
PAGE 2-B



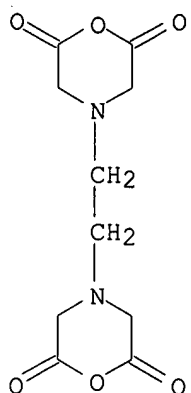
- IT 60-00-4, Ethylenediaminetetraacetic acid, reactions
 67-43-6, Diethylenetriaminepentaacetic acid 23911-25-3,
 Ethylenediaminetetraacetic dianhydride 23911-26-4,
 Diethylenetriaminepentaacetic acid dianhydride 81329-81-9
 106145-40-8 132438-15-4 148690-82-8
 411229-70-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for producing an amide oligosaccharides which can be used as a
 diagnostic imaging agents)
 RN 60-00-4 HCAPLUS
 CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)- (9CI) (CA INDEX NAME)



- RN 67-43-6 HCAPLUS
 CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

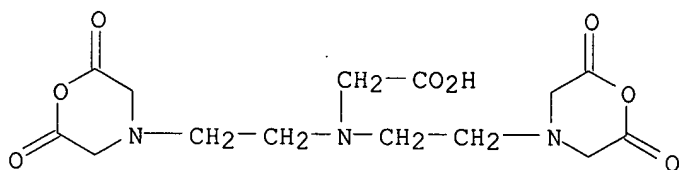


- RN 23911-25-3 HCAPLUS
 CN 2,6-Morpholinedione, 4,4'-(1,2-ethanediyl)bis- (9CI) (CA INDEX NAME)



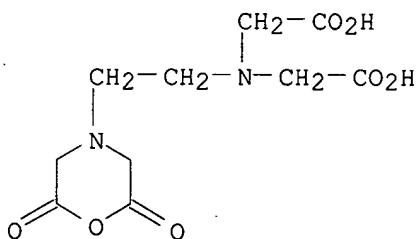
RN 23911-26-4 HCAPLUS

CN Glycine, N,N-bis[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



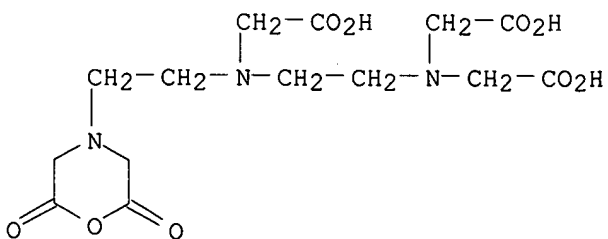
RN 81329-81-9 HCAPLUS

CN Glycine, N-(carboxymethyl)-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI)
(CA INDEX NAME)



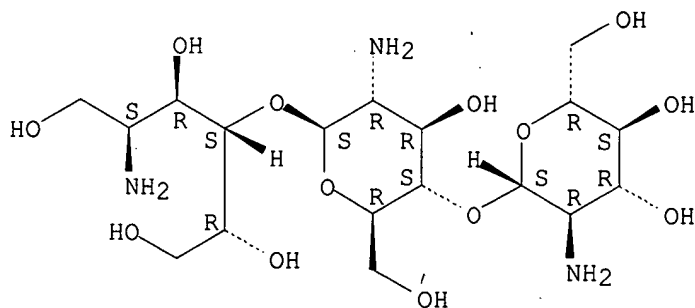
RN 106145-40-8 HCAPLUS

CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



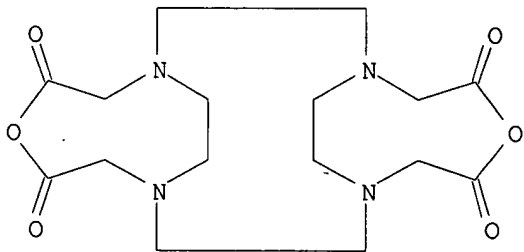
RN 132438-15-4 HCAPLUS
 CN D-Glucitol, O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-, trihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

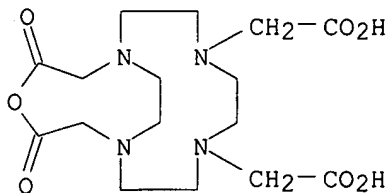


● 3 HCl

RN 148690-82-8 HCAPLUS
 CN 7,16-Dioxa-1,4,10,13-tetraazatricyclo[11.5.2.24,10]docosane-6,8,15,17-tetrone (9CI) (CA INDEX NAME)



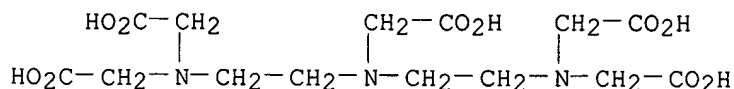
RN 411229-70-4 HCAPLUS
 CN 13-Oxa-1,4,7,10-tetraazabicyclo[8.5.2]heptadecane-4,7-diacetic acid, 12,14-dioxo- (9CI) (CA INDEX NAME)



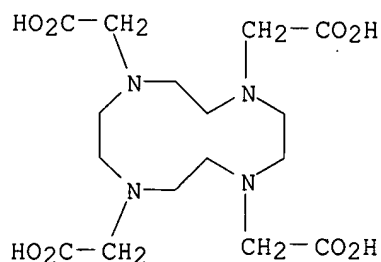
L55 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1993:517749 HCAPLUS
 DN 119:117749
 TI Preparation of bifunctional ligands for metals as imaging agent for

diagnosis
 IN Hashifuchi, Yuji; Iwai, Kumiko; Seri, Shigemi; Kondo, Susumu; Azuma, Makoto
 PA Nihon Medi-Physics Co., Ltd., Japan
 SO Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 535668	A1	19930407	EP 1992-116804	19921001
	EP 535668	B1	19960807		
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	JP 05097712	A2	19930420	JP 1991-258017	19911004
	JP 2894879	B2	19990524		
	US 5271924	A	19931221	US 1992-952992	19920929
	CA 2079493	AA	19930405	CA 1992-2079493	19920930
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	AT 141058	E	19960815	AT 1992-116804	19921001
	ES 2093163	T3	19961216	ES 1992-116804	19921001
	AU 9226191	A1	19930408	AU 1992-26191	19921002
	AU 650791	B2	19940630		
	KR 219004	B1	19990901	KR 1992-18074	19921002
	US 5352431	A	19941004	US 1993-119387	19930913
PRAI	JP 1991-258017	A	19911004		
	US 1992-952992	A3	19920929		
OS	MARPAT 119:117749				
AB	The bifunctional ligand comprises galactosamino-oligosaccharide and polyaminopolycarboxylic acid. To galactosamino-pentamer in phosphate buffer was added 1-(p-isothiocyanatebenzyl)diethylenetriaminepentaacetic acid, to give after workup their reaction product which in distilled H ₂ O was added to 0.1M citrate buffer followed by InCl ₃ (148MBeq) to give the complex (I) having a radiochem. purity of 100%. The 1/2 life of I in blood was 55 min, clin. effective retention in blood and good excretion in urine.				
IT	67-43-6DP, Diethylenetriamine pentaacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes 60239-18-1DP, 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes 128174-30-1DP, reaction products with polyaminopolycarboxylic acid, metal complexes RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as imaging agent for diagnosis)				
RN	67-43-6 HCAPLUS				
CN	Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)				



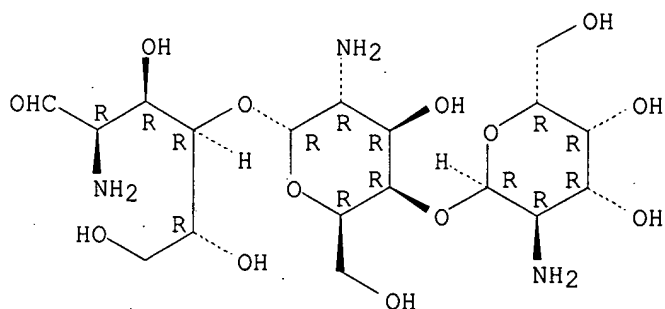
RN 60239-18-1 HCAPLUS
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (9CI) (CA INDEX NAME)



RN 128174-30-1 HCAPLUS

CN D-Galactose, O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil uspatful

FILE 'USPATFULL' ENTERED AT 07:20:33 ON 19 OCT 2006

CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 17 Oct 2006 (20061017/PD)

FILE LAST UPDATED: 17 Oct 2006 (20061017/ED)

HIGHEST GRANTED PATENT NUMBER: US7124445

HIGHEST APPLICATION PUBLICATION NUMBER: US2006230483

CA INDEXING IS CURRENT THROUGH 17 Oct 2006 (20061017/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 17 Oct 2006 (20061017/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2006

=> d bib abs hitstr tot 159

L59 ANSWER 1 OF 4 USPATFULL on STN

AN 2003:72165 USPATFULL

TI Process for producing metal complex of amino oligosaccharide derivative

IN Hashiguchi, Yuji, Chiba, JAPAN

Suzuki, Keisuke, Chiba, JAPAN

Wada, Masatoshi, Chiba, JAPAN

PI US 2003050452 A1 20030313

AI US 2002-204557 A1 20020822 (10)

WO 2000-JP110983 20001226

PRAI JP 2000-394258 20001226

DT Utility
 FS APPLICATION
 LREP FITCH EVEN TABIN AND FLANNERY, 120 SOUTH LA SALLE STREET, SUITE 1600,
 CHICAGO, IL, 60603-3406
 CLMN Number of Claims: 11
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 477

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

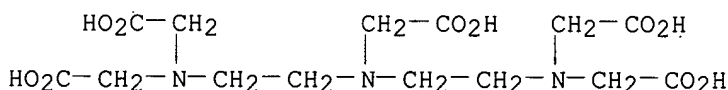
AB A highly purified metal complex with an amino-oligosaccharide derivative is produced by effectively removing impurities, by-products, excess salts and the like that have been produced during the reaction steps for synthesis of the amino-oligosaccharide derivative and the steps for formation of its metal complexes. A process for producing a metal complex with an amino-oligosaccharide derivative is provided, in which a crude reaction liquid containing an amino-oligosaccharide derivative is subjected to a complexation process with a metal ion and a purification process, and the purification process comprises at least one step by a solvent extraction process, an anion exchange process, a membrane filtration process, an electrodialysis process or an adsorption process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 67-43-6DP, Diethylenetriaminepentaacetic acid, reaction product with chitotrisaccharide 84354-98-3DP, reaction product with diethylenetriaminepentaacetic acid
 (process for producing metal complex of amino-oligosaccharide derivative and purification by solvent extraction, ion-exchange chromatog., reverse osmosis, electrodialysis, or adsorption method.)

RN 67-43-6 USPATFULL

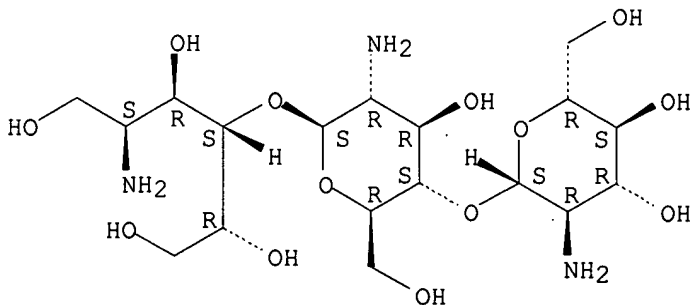
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 84354-98-3 USPATFULL

CN D-Glucitol, O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-2-amino-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L59 ANSWER 2 OF 4 USPATFULL on STN

AN 2002:149297 USPATFULL
 TI Process for producing an amide compound
 IN Takano, Naoyuki, Osaka, JAPAN
 Nakamura, Daisaku, Ichihara-shi, JAPAN
 PI US 2002077456 A1 20020620
 AI US 2001-971929 A1 20011009 (9)
 PRAI JP 2000-310626 20001011
 DT Utility
 FS APPLICATION
 LREP BIRCH, STEWART, KOLASCH & BIRCH, LLP, P.O. Box 747, Falls Church, VA,
 22040-0747
 CLMN Number of Claims: 18
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 514

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is disclosed a process for producing an amide compound, which process is characterized in that a compound having an amino group are reacted with a polyaminopolycarboxylic acid anhydride in the presence of the polyaminopolycarboxylic acid.

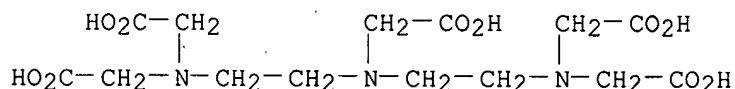
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 67-43-6DP, Diethylenetriaminepentaacetic acid, human serum albumin conjugate 411229-68-0P 411229-71-5P
 411229-73-7P 411229-74-8P

(process for producing an amide oligosaccharides which can be used as a diagnostic imaging agents)

RN 67-43-6 USPATFULL

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

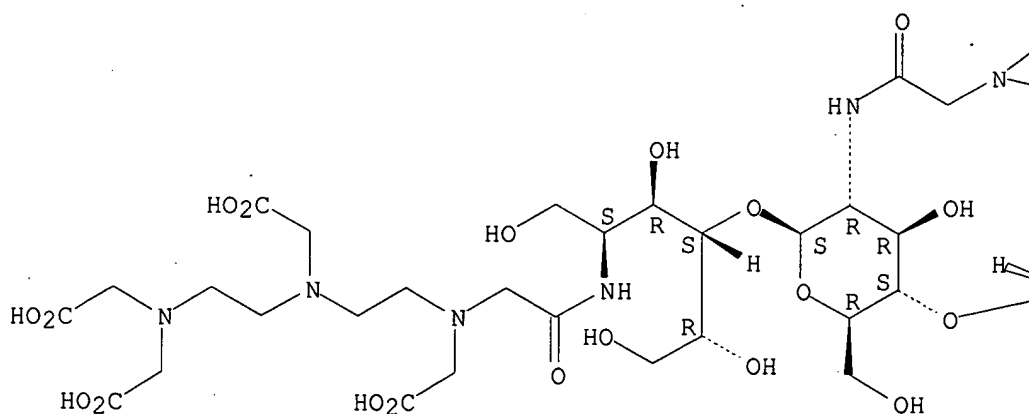


RN 411229-68-0 USPATFULL

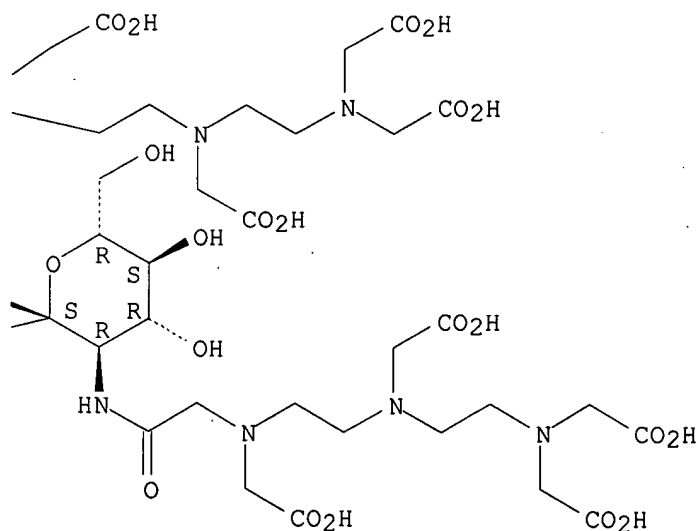
CN D-Glucitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy-β-D-glucopyranosyl-(1→4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy-β-D-glucopyranosyl-(1→3)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B

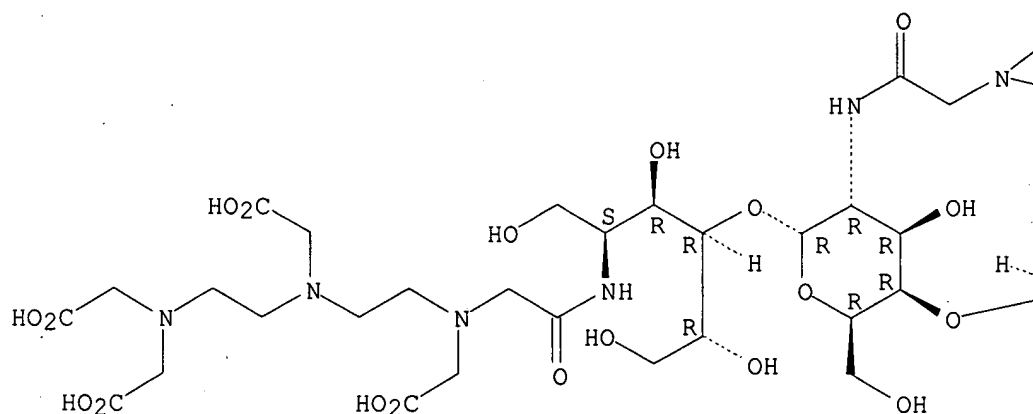


RN 411229-71-5 USPATFULL

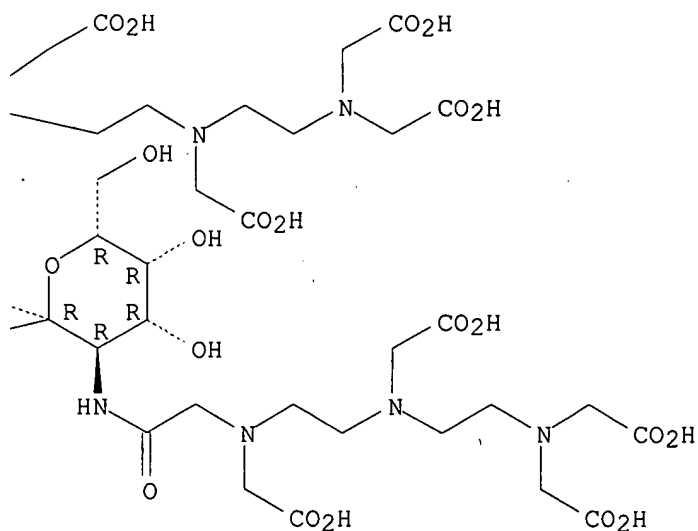
CN D-Galactitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

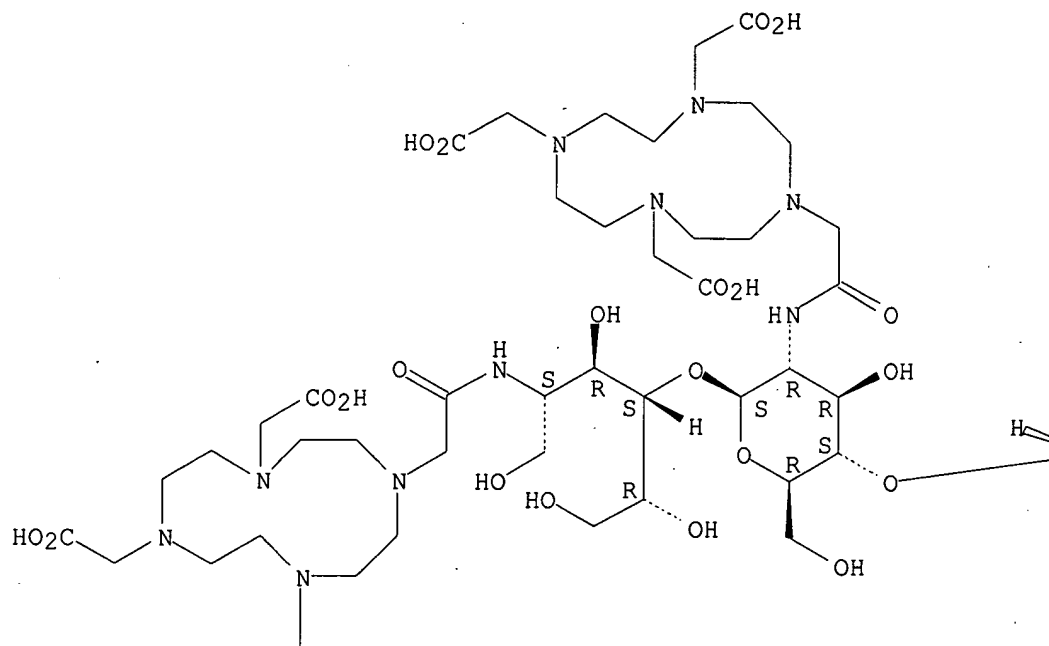


RN 411229-73-7 USPATFULL

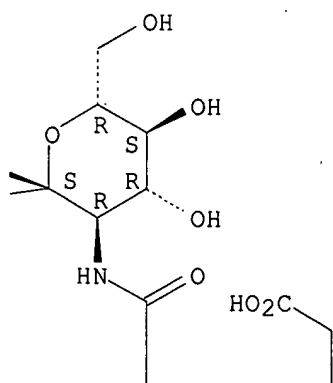
CN D-Glucitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]-β-D-glucopyranosyl-(1→4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]-β-D-glucopyranosyl-(1→3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

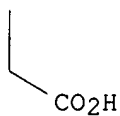
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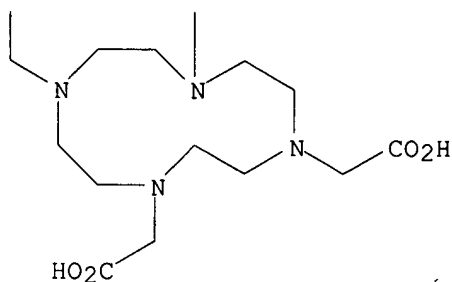
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PAGE 2-A



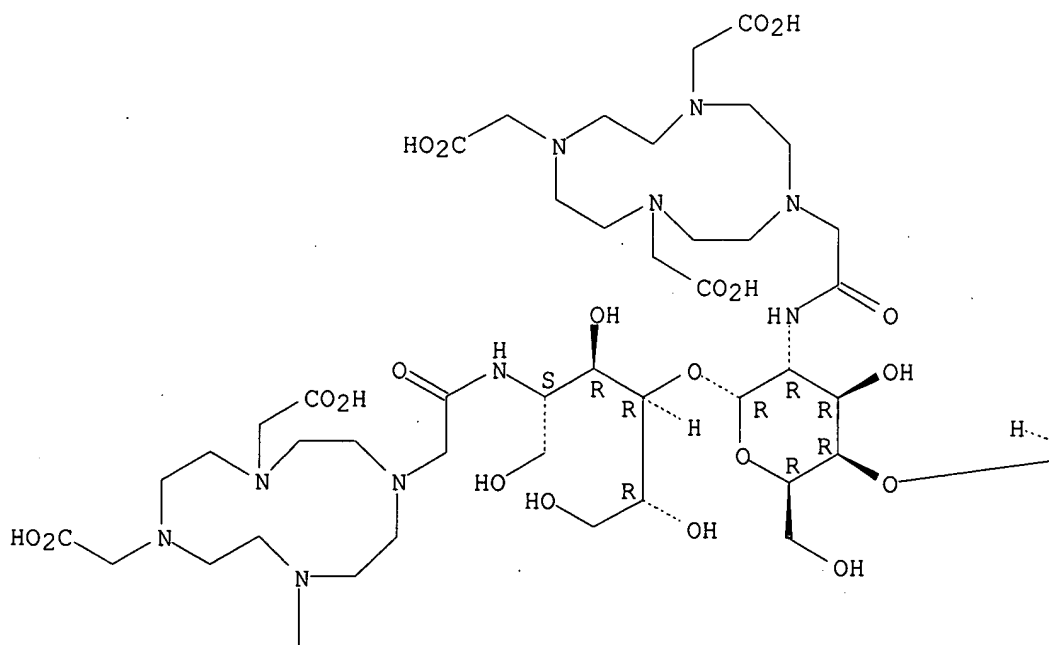
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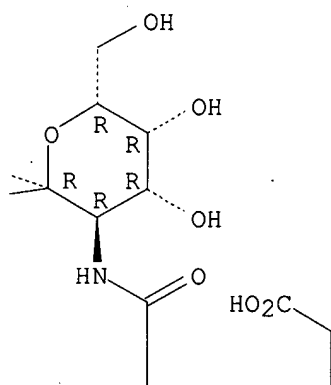
RN 411229-74-8 USPATFULL
 CN D-Galactitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]-α-D-galactopyranosyl-(1→4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]-α-D-galactopyranosyl-(1→3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

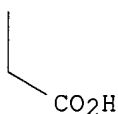
PAGE 1-A



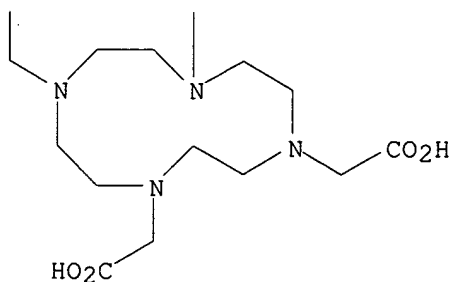
PAGE 1-B



PAGE 2-A



PAGE 2-B



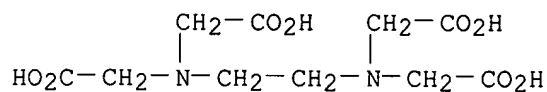
IT 60-00-4, Ethylenediaminetetraacetic acid, reactions
 67-43-6, Diethylenetriaminepentaacetic acid 23911-25-3,
 Ethylenediaminetetraacetic dianhydride 23911-26-4,
 Diethylenetriaminepentaacetic acid dianhydride 81329-81-9
 106145-40-8 132438-15-4 148690-82-8
 411229-70-4

(process for producing an amide oligosaccharides which can be used as a

diagnostic imaging agents)

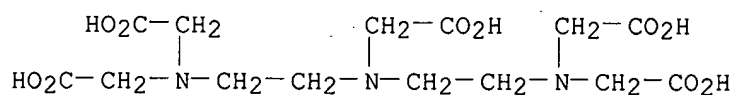
RN 60-00-4 USPATFULL

CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)- (9CI) (CA INDEX NAME)



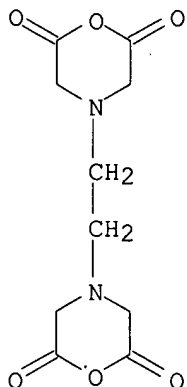
RN 67-43-6 USPATFULL

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



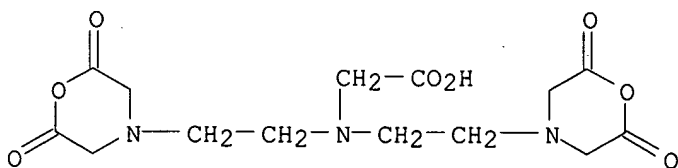
RN 23911-25-3 USPATFULL

CN 2,6-Morpholinedione, 4,4'-(1,2-ethanediyl)bis- (9CI) (CA INDEX NAME)



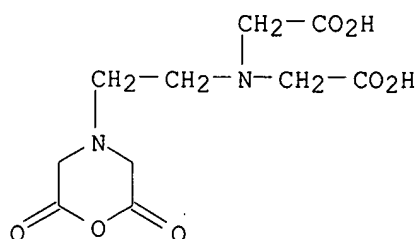
RN 23911-26-4 USPATFULL

CN Glycine, N,N-bis[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



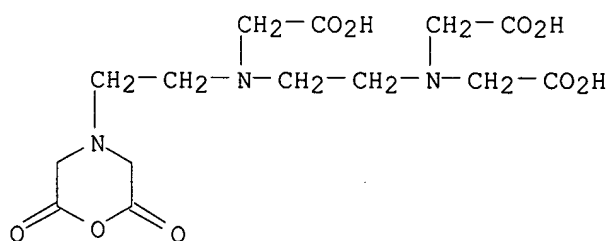
RN 81329-81-9 USPATFULL

CN Glycine, N-(carboxymethyl)-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 106145-40-8 USPATFULL

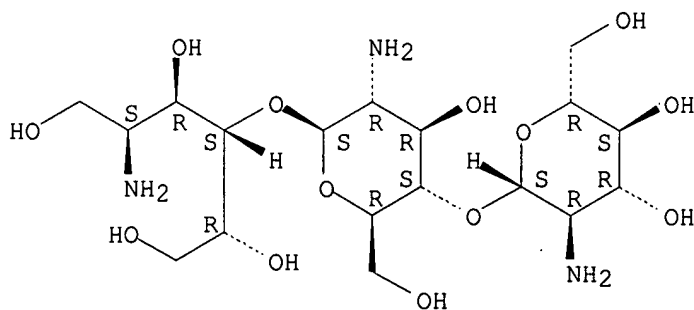
CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 132438-15-4 USPATFULL

CN D-Glucitol, O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-2-amino-2-deoxy-, trihydrochloride (9CI) (CA INDEX NAME)

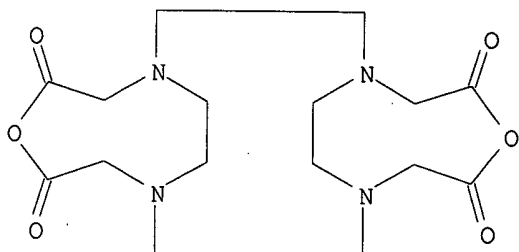
Absolute stereochemistry.



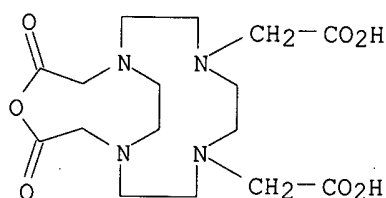
● 3 HCl

RN 148690-82-8 USPATFULL

CN 7,16-Dioxo-1,4,10,13-tetraazatricyclo[11.5.2.2.4,10]docosane-6,8,15,17-tetrone (9CI) (CA INDEX NAME)



RN 411229-70-4 USPATFULL
 CN 13-Oxa-1,4,7,10-tetraazabicyclo[8.5.2]heptadecane-4,7-diacetic acid,
 12,14-dioxo- (9CI) (CA INDEX NAME)



L59 ANSWER 3 OF 4 USPATFULL on STN
 AN 94:86163 USPATFULL
 TI Low molecular weight polysaccharide complexes for X-ray imaging
 IN Hashiguchi, Yuji, Sodegaura, Japan
 Iwai, Kumiko, Ichihara, Japan
 Seri, Shigemi, Ichihara, Japan
 Kondo, Susumu, Ichihara, Japan
 Azuma, Makoto, Ichihara, Japan
 PA Nihon Medi-Physics Co., Ltd., Hyogo, Japan (non-U.S. corporation)
 PI US 5352431 19941004
 AI US 1993-119387 19930913 (8)
 RLI Division of Ser. No. US 1992-952992, filed on 29 Sep 1992, now patented,
 Pat. No. US 5271924
 PRAI JP 1991-3258017 19911004
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Hollinden, Gary E.
 CLMN Number of Claims: 9
 ECL Exemplary Claim: 1
 DRWN 2 Drawing Figure(s); 1 Drawing Page(s)
 LN.CNT 554

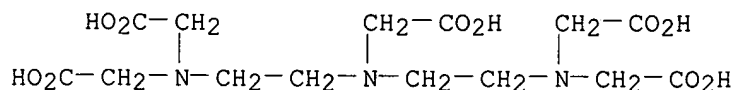
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is disclosed an imaging agent for diagnosis comprising a compound composed of a polynuclear type compound of the formula I or II: ~~##chem~~ wherein each X is a hydrogen atom or a bifunctional ligand, at least one of them are bifunctional ligand and m or n is an integer, at least one metal ion being coordinated with at least one ligand moiety, said metal ion being selected from the group of metal ions having the atomic number of 21-29, 31, 32, 49 and 56-83.

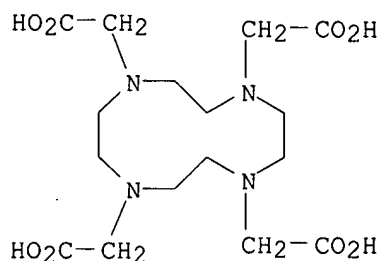
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 67-43-6DP, Diethylenetriamine pentaacetic acid, reaction product

RN 67-43-6 USPATFULL
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

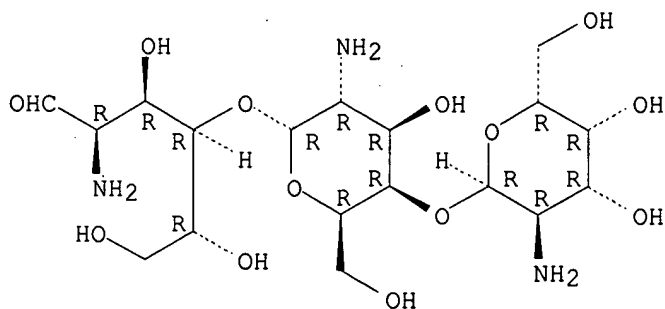


RN	60239-18-1	USPATFULL	
CN	1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (9CI)	(CA INDEX NAME)	



RN 128174-30-1 USPATFULL
CN D-Galactose, O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L59 ANSWER 4 OF 4 USPATFULL on STN
AN 93:106799 USPATFULL
TI Low molecular weight polysaccharide complexes for nuclear magnetic
resonance imaging
IN Hashiguchi, Yuji, Sodegaura, Japan
Iwai, Kumiko, Ichihara, Japan
Seri, Shigemi, Ichihara, Japan

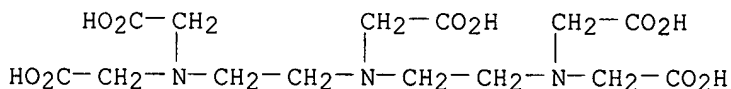
Kondo, Susumu, Ichihara, Japan
 Azuma, Makoto, Ichihara, Japan
 PA Nihon Medi-Physics Co., Ltd., Hyogo, Japan (non-U.S. corporation)
 PI US 5271924 19931221
 AI US 1992-952992 19920929 (7)
 PRAI JP 1991-258017 19911004
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Hollrah, Glennon A.; Assistant Examiner: Hollinden, Gary E.
 CLMN Number of Claims: 8
 ECL Exemplary Claim: 1
 DRWN 2 Drawing Figure(s); 1 Drawing Page(s)
 LN.CNT 543

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

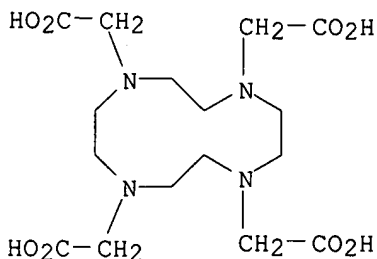
AB There is disclosed an imaging agent for diagnosis comprising a compound composed of a polynuclear type compound of the formula I or II: ##STR1## wherein each X is a hydrogen atom or a bifunctional ligand, at least one of them are bifunctional ligand and m or n is an integer of 1 to 6, and at least one metal ion being coordinated with at least one bifunctional ligand moiety, said metal ion being selected from the group consisting of metal ions having the atomic number of 21-29, 31, 32, 37-39, 42-44, 49 and 56-83.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **67-43-6DP**, Diethylenetriamine pentaacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes **60239-18-1DP**, 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes **128174-30-1DP**, reaction products with polyaminopolycarboxylic acid, metal complexes
 (preparation of, as imaging agent for diagnosis)
 RN 67-43-6 USPATFULL
 CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



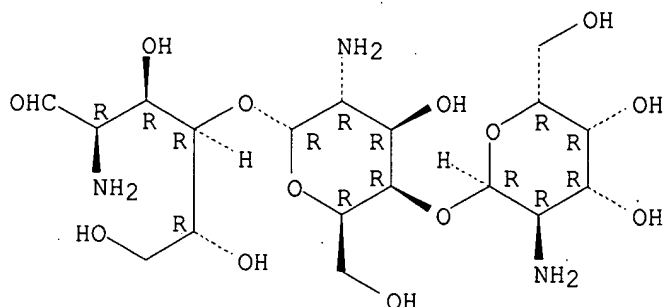
RN 60239-18-1 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (9CI) (CA INDEX NAME)



RN 128174-30-1 USPATFULL
 CN D-Galactose, O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-

amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> => fil reg

FILE 'REGISTRY' ENTERED AT 07:22:17 ON 19 OCT 2006

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STRUCTURE FILE UPDATES: 18 OCT 2006 HIGHEST RN 910777-14-9

DICTIONARY FILE UPDATES: 18 OCT 2006 HIGHEST RN 910777-14-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d ide can tot 161

L61 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN **411229-70-4** REGISTRY

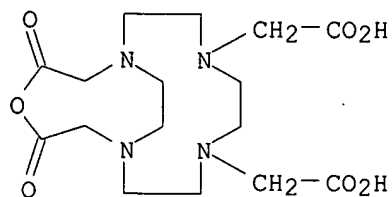
ED Entered STN: 06 May 2002

CN 13-Oxa-1,4,7,10-tetraazabicyclo[8.5.2]heptadecane-4,7-diacetic acid,
12,14-dioxo- (9CI) (CA INDEX NAME)

MF C16 H26 N4 O7

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

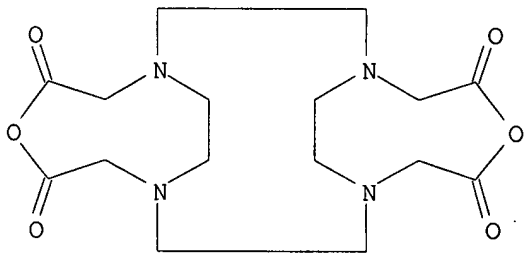


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:325778

L61 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
RN **148690-82-8** REGISTRY
ED Entered STN: 15 Jul 1993
CN 7,16-Dioxo-1,4,10,13-tetraazatricyclo[11.5.2.24,10]docosane-6,8,15,17-tetrone (9CI) (CA INDEX NAME)
MF C16 H24 N4 O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:325778

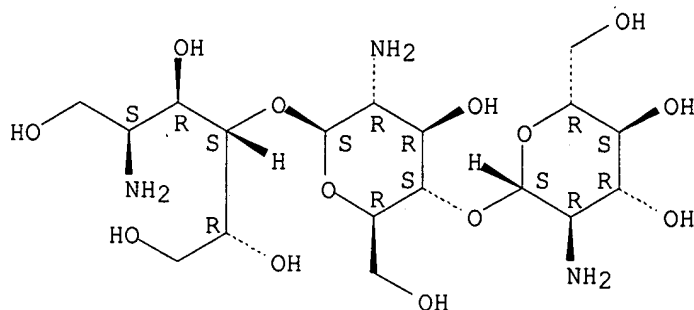
REFERENCE 2: 121:103233

REFERENCE 3: 119:66757

L61 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
RN **132438-15-4** REGISTRY
ED Entered STN: 08 Mar 1991
CN D-Glucitol, O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-2-amino-2-deoxy-, trihydrochloride (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H37 N3 O13 . 3 Cl H
SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 CRN (84354-98-3)

Absolute stereochemistry.



● 3 HCl

3 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

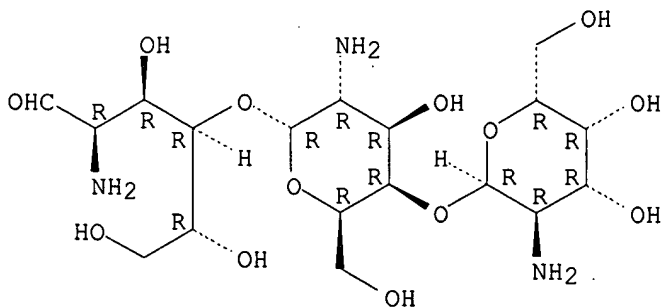
REFERENCE 1: 145:40237

REFERENCE 2: 136:325778

REFERENCE 3: 114:122944

L61 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 128174-30-1 REGISTRY
 ED Entered STN: 13 Jul 1990
 CN D-Galactose, O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-(9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C18 H35 N3 O13
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:35865

REFERENCE 2: 119:117749

REFERENCE 3: 117:33591

REFERENCE 4: 113:59770

REFERENCE 5: 113:59769

L61 ANSWER 5 OF 12 'REGISTRY' COPYRIGHT 2006 ACS on STN

RN 106145-40-8 REGISTRY

ED Entered STN: 17 Jan 1987

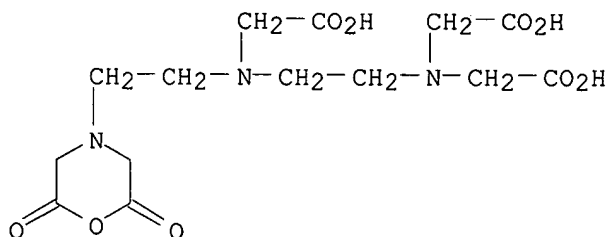
CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

MF C14 H21 N3 O9

CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:183352

REFERENCE 2: 140:151915

REFERENCE 3: 136:325778

REFERENCE 4: 135:335174

REFERENCE 5: 133:220352

REFERENCE 6: 130:7447

REFERENCE 7: 123:93454

REFERENCE 8: 123:4743

REFERENCE 9: 119:220703

REFERENCE 10: 117:43667

L61 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN **84354-98-3** REGISTRY

ED Entered STN: 16 Nov 1984

CN D-Glucitol, O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy- (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN Chitotriitol

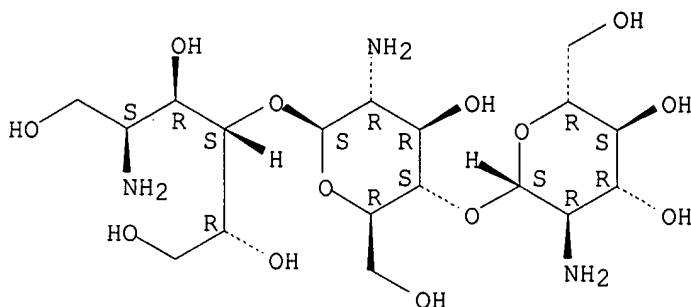
FS STEREOSEARCH

MF C18 H37 N3 O13

CI COM

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:177045

REFERENCE 2: 139:149878

REFERENCE 3: 137:87494

REFERENCE 4: 116:214814

REFERENCE 5: 113:147677

REFERENCE 6: 98:67748

L61 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN **81329-81-9** REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(carboxymethyl)-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI)
(CA INDEX NAME)

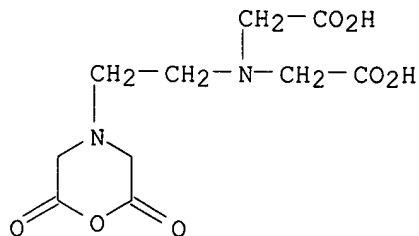
OTHER NAMES:

CN EDTA monoanhydride

CN Ethylenediaminetetraacetic acid monoanhydride

MF C10 H14 N2 O7

LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

21 REFERENCES IN FILE CA (1907 TO DATE)
21 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:345523

REFERENCE 2: 144:183352

REFERENCE 3: 144:120091

REFERENCE 4: 143:454505

REFERENCE 5: 141:309224

REFERENCE 6: 139:45855

REFERENCE 7: 136:355448

REFERENCE 8: 136:325778

REFERENCE 9: 132:123091

REFERENCE 10: 129:339879

L61 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN 60239-18-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1,4,7,10-Tetraazacyclododecane-N,N',N'',N'''-tetraacetic acid

CN DOTA

CN NSC 681107

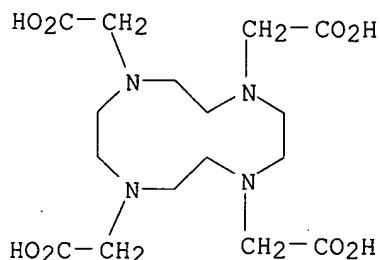
CN Tetraxetan

DR 105416-43-1

MF C16 H28 N4 O8

CI COM

LC STN Files: ADISNEWS, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CIN, CSCHM, EMBASE, GMELIN*, IPA, MEDLINE, PROMT, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

567 REFERENCES IN FILE CA (1907 TO DATE)
 355 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 571 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:331514

REFERENCE 2: 145:328360

REFERENCE 3: 145:291068

REFERENCE 4: 145:287565

REFERENCE 5: 145:278265

REFERENCE 6: 145:249433

REFERENCE 7: 145:243941

REFERENCE 8: 145:189981

REFERENCE 9: 145:183323

REFERENCE 10: 145:130695

L61 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN **23911-26-4** REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N,N-bis[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,6-Morpholinedione, 4,4'-[[[(carboxymethyl)imino]diethylene]di- (8CI)

CN Glycine, N,N-bis[2-(2,6-dioxomorpholino)ethyl]- (8CI)

OTHER NAMES:

CN 1,5-Bis(2,6-dioxomorpholino)-3-azapentane-3-acetic acid

CN Cyclic DTPA anhydride

CN Diethylenetriamine-N,N,N',N'',N'''-pentaacetic acid N,N'''-dianhydride

CN Diethylenetriaminepentaacetic acid dianhydride

CN Diethylenetriaminepentaacetic bisanhydride

CN Diethylenetriaminepentaacetic dianhydride

CN DTPA anhydride

CN DTPA cyclic anhydride

CN DTPA dianhydride

CN N,N-Bis[2-(2,6-dioxo-4-morpholinyl)ethyl]glycine

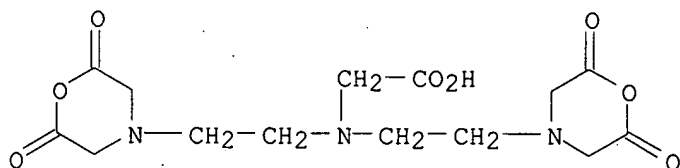
CN NSC 379317

DR 167271-36-5, 120195-90-6, 119895-99-7, 111535-62-7, 150909-78-7,
 291290-07-8

MF C14 H19 N3 O8

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CSChem, IFICDB, IFIPAT, IFIUDb, MEDLINE, MSDS-OHS,
 SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

541 REFERENCES IN FILE CA (1907 TO DATE)
 100 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 541 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:336185

REFERENCE 2: 145:330714

REFERENCE 3: 145:330664

REFERENCE 4: 145:265850

REFERENCE 5: 145:140473

REFERENCE 6: 145:139987

REFERENCE 7: 145:130752

REFERENCE 8: 145:120046

REFERENCE 9: 145:119464

REFERENCE 10: 145:109915

L61 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN 23911-25-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2,6-Morpholinedione, 4,4'-(1,2-ethanediyl)bis- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,6-Morpholinedione, 4,4'-ethylenedi- (8CI)

OTHER NAMES:

CN 1,2-Bis[2,6-dioxo-4-morpholinyl]ethane

CN 4,4'-Ethylenebis(2,6-dioxomorpholine)

CN 4,4'-Ethylenebis(2,6-morpholinedione)

CN EDTA bisanhydride

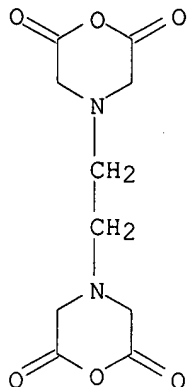
CN EDTA dianhydride

CN Ethylenediaminetetraacetic acid dianhydride

CN Ethylenediaminetetraacetic dianhydride

CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, cyclic

N,N:N',N'-dianhydride
DR 122219-64-1, 151805-59-3
MF C10 H12 N2 O6
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,
CHEMLIST, CIN, CSChem, IFICDB, IFIPAT, IFIUDb, MSDS-OHS, TOXCENTER,
USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

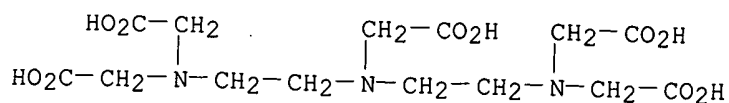
206 REFERENCES IN FILE CA (1907 TO DATE)
27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
206 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:28182
REFERENCE 2: 144:482176
REFERENCE 3: 144:332328
REFERENCE 4: 144:265668
REFERENCE 5: 144:260367
REFERENCE 6: 144:224778
REFERENCE 7: 144:135265
REFERENCE 8: 144:120091
REFERENCE 9: 144:57679
REFERENCE 10: 143:359997

L61 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
RN 67-43-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, N,N-bis[2-bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA
INDEX NAME)

OTHER NAMES:

CN 1,1,4,7,7-Diethylenetriaminepentaacetic acid
 CN 3,6,9-Triazaundecanedioic acid, 3,6,9-tris(carboxymethyl)-
 CN Acetic acid, 2,2',2'',2'''-[[[(carboxymethyl)imino]bis(2,1-ethanediyl)nitri]lo]]tetrakis-
 CN Chel 330 acid
 CN Chel DTPA
 CN Clewat DA
 CN Complexon V
 CN Dabeersen 503
 CN Detapac
 CN Detarex
 CN DETP
 CN DETPA
 CN Diethylenetriamine-N,N,N',N'',N'''-pentaacetic acid
 CN Diethylenetriaminepentaacetic acid
 CN Dissolvine D
 CN DPTA
 CN DTPA
 CN Hamp-Ex Acid
 CN Monaquest CAI
 CN N,N-Bis[2-[bis(carboxymethyl)amino]ethyl]glycine
 CN NSC 7340
 CN Pentacarboxymethyl diethylenetriamine
 CN Pentetic acid
 CN Titriplex V
 CN [[[(Carboxymethyl)imino]bis(ethylenenitrilo)]tetraacetic acid
 DR 782415-12-7, 803683-39-8, 573987-64-1, 13407-13-1, 6889-50-5, 7575-40-8, 25737-54-6, 84932-15-0, 49758-21-6
 MF C14 H23 N3 O10
 CI COM
 SR CA
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6494 REFERENCES IN FILE CA (1907 TO DATE)
 2017 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 6512 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:340826
 REFERENCE 2: 145:335242
 REFERENCE 3: 145:327226

REFERENCE 4: 145:326331
REFERENCE 5: 145:321061
REFERENCE 6: 145:313010
REFERENCE 7: 145:309038
REFERENCE 8: 145:308204
REFERENCE 9: 145:304953
REFERENCE 10: 145:300382

L61 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN 60-00-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)- (9CI) (CA INDEX NAME),

OTHER CA INDEX NAMES:

CN Acetic acid, (ethylenedinitrilo)tetra- (8CI)

OTHER NAMES:

CN 3,6-Diazaoctanedioic acid, 3,6-bis(carboxymethyl)-

CN 62: PN: US20050026181 PAGE: 33 claimed protein

CN Acetic acid, 2,2',2'',2'''-(1,2-ethanediylldinitrilo)tetrakis-

CN Acroma DH 700

CN Celon A

CN Celon ATH

CN Cheelox

CN Chelest 3A

CN Chemcolox 340

CN Clewat TAA

CN Complexon II

CN Dissolvine E

CN Dissolvine Z

CN Edathamil

CN Edetic acid

CN EDTA

CN EDTA (chelating agent)

CN Endrate

CN Ethylene-N,N'-biscarboxymethyl-N,N'-diglycine

CN Ethylenediamine-N,N,N',N'-tetraacetic acid

CN Ethylenediaminetetraacetic acid

CN Ethylenedinitrilotetraacetic acid

CN Gluma Cleanser

CN Havidote

CN ICRF 185

CN Metaquest A

CN N,N'-1,2-Ethanediyl-bis-N-(carboxymethyl)glycine

CN Nervanaid B acid

CN NSC 97243

CN NSC 97404

CN Nullapon B acid

CN Nullapon BF acid

CN Perma Kleer 50 acid

CN Quastal Special

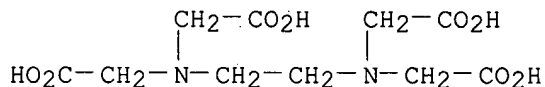
CN Sequestrene AA

CN Sequestrene K 4

CN Sequestric acid

CN Sequestrol

CN Techrun DO
 CN Titriplex
 CN Titriplex II
 CN Trilon BS
 CN Trilon BW
 CN Versene
 CN YD 30
 CN Zonon AO
 DR 13440-78-3, 20539-27-9, 94108-75-5, 26627-46-3, 30485-87-1, 30485-88-2,
 30485-90-6, 32757-10-1, 161122-33-4, 402925-67-1, 675141-16-9
 MF C10 H16 N2 O8
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
 BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DRUGU,
 EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*,
 IFICDB, IFIPAT, IFIADB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT,
 PROUSDDR, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2,
 USPATFULL, VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

30115 REFERENCES IN FILE CA (1907 TO DATE)
 3907 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 30241 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:347396
 REFERENCE 2: 145:347386
 REFERENCE 3: 145:345010
 REFERENCE 4: 145:343831
 REFERENCE 5: 145:342641
 REFERENCE 6: 145:342512
 REFERENCE 7: 145:342504
 REFERENCE 8: 145:342327
 REFERENCE 9: 145:342301
 REFERENCE 10: 145:341899

=> d his

(FILE 'HOME' ENTERED AT 06:18:59 ON 19 OCT 2006)
SET COST OFF

FILE 'HCA' ENTERED AT 06:21:20 ON 19 OCT 2006

L1 1 S US20020077456/PN OR (US2001-971929# OR JP2000-310626)/AP,PRN
E TAKANO/AU
E TAKANO N/AU
L2 91 S E3,E18
E NAOYUKI/AU
E NAO YUKI/AU
E NAKAMURA/AU
L3 4 S E3
E NAKAMURA D/AU
L4 48 S E3,E7,E8
E NAKAMURA NAME/AU
E DAISAKU/AU
E NIHON/PA,CS
E NIHON MED/PA,CS
L5 108 S E14-E26
E SUMITO/PA,CS
L6 93032 S E55,E56 OR SUMITOMO?/PA,CS
SEL RN L1

FILE 'REGISTRY' ENTERED AT 06:27:55 ON 19 OCT 2006

L7 22 S E1-E22
L8 6 S L7 AND (C60H100N12O40 OR C48H79N9O34 OR C66H115N15O34)
L9 7 S (C60H100N12O40 OR C48H79N9O34 OR C66H115N15O34) NOT L8
L10 13 S L8,L9
L11 1 S 67-43-6
L12 1 S 60-00-4
L13 1 S 60239-18-1
L14 1 S 23911-25-3
L15 1 S 23911-26-4
L16 2 S L7 AND NC2OC2/ES NOT L14,L15
L17 2 S 148690-82-8 OR 411229-70-4
L18 5 S 115724-92-0 OR 411229-75-9 OR 151677-09-7 OR 138885-99-1 OR 1
L19 3 S L7 NOT L8-L18
L20 1 S 84354-98-3
L21 1 S 84354-98-3/CRN
L22 2 S L20,L21
L23 2 S C18H37N3O13/MF
L24 1 S L23 NOT L22
L25 0 S 835626-40-9/CRN
L26 3 S L22,L23,L24
L27 STR
L28 50 S L27
L29 1204 S L27 FUL
SAV L29 SATYA971/A
L30 2 S L29 AND NC2NC2NC2NC2/ES
L31 1 S L29 AND NC2OC2/ES
L32 STR
L33 0 S L32 SAM SUB=L29
L34 STR L32
L35 1 S L34 SAM SUB=L29
L36 STR L34
L37 1 S L36 SAM SUB=L29
L38 20 S L36 FUL SUB=L29
SAV L38 SATYA971A/A
L39 11 S L38 NOT L10
L40 0 S L39 NOT (C6/ES OR P/ELS)

L41 2 S L10 NOT L30,L38
L42 9 S L10 AND L38
L43 0 S L29 AND (63215 OR 55514)/RID
L44 2 S L27 CSS SAM SUB=L29
L45 27 S L27 CSS FUL SUB=L29
SAV L45 SATYA971B/A
L46 9 S L45 AND 1/NC
L47 17 S L45 NOT L26,L46
SEL RN 7 16 17
L48 3 S E23-E25
L49 13 S L26,L46,L48

FILE 'HCAPLUS' ENTERED AT 07:17:06 ON 19 OCT 2006

L50 2 S L30 OR L42
L51 3 S L49 AND L11-L13
L52 1 S L49 AND L14-L17
L53 4 S L50,L51,L52
L54 3 S L53 AND L1-L6
L55 4 S L53,L54

FILE 'USPATFULL' ENTERED AT 07:18:27 ON 19 OCT 2006

L56 1 S L30 OR L42
L57 4 S L49 AND L11-L13
L58 1 S L49 AND L14-L17
L59 4 S L56-L58

FILE 'REGISTRY' ENTERED AT 07:19:08 ON 19 OCT 2006

L60 11 S L30 OR L42

FILE 'HCAPLUS' ENTERED AT 07:20:10 ON 19 OCT 2006

FILE 'USPATFULL' ENTERED AT 07:20:33 ON 19 OCT 2006

FILE 'HCAPLUS' ENTERED AT 07:21:39 ON 19 OCT 2006
SEL HIT RN L55

FILE 'REGISTRY' ENTERED AT 07:22:02 ON 19 OCT 2006

L61 12 S E26-E48 NOT L30,L42

FILE 'REGISTRY' ENTERED AT 07:22:17 ON 19 OCT 2006

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